

Field Note Book

Collection

NUMBERS

No 4.

H. A. ALLARD.

4767-6103

H. Allard Field Notes 4767-6103

See #4895, 4896, 4897
collected under date of May 12, 1938
on Short Mountain, Massachusetts;
Mr. W. W. Diehl on this trip.
This material entered out of
date order #4896 - *Cetaria islandica*

June 5, 1938. Collected around Hoperell
Gap, Bull Run Mt. with Mr. Gurney, U.S.N.M.

May 8, 1938. To Devils Hole Mt in the
Alleghenies with J. E. Lauritzen.

To Devils Hole Mt. April 30, ¹⁹³⁸, with T

Dr. F. J. Hermann on July 30,
1938 identified all my northern Cyperaceae
from Mt. Katahdin and Mt. Washington

Allard, H. A. Mess., Me., Va., W. Va.
Book 4. 1938-1939.
Field Notes nos. 4767 - 6103.

Cyperaceae
his request. all Cyperaceae in this book
identified by him (see lists)

Mt. Washington ^{N.H.} 6293 ft. alt.
Mt. Katahdin, Maine = 5276 ft. "
Climb Mt. Katahdin July 4, 1938
" over slope of " " 5, 1938
" to top of Mt. Katahdin " 6, 1938.
" Mt. Washington via Tuckerman Ravine July 11, 1938
" Mt. Washington, N.H. " Tuckerman Ravine. July 13, 1938

June 26, 1938. To Hoperell Gap with T.
walk across Castle's field to high
knossedge field, thence near old mansion
in woods and up High Point slope
thence to car along ridge.

July 24, 1938. To Hoperell Gap and next slope
below High Point with T. Same
trip made again to same area July 31, 1938

August 13 & 14, ^{with T.} visited Bull Run area
in vicinity of Thoroughfare Gap and
Broad Run station. stay overnight near
wood stock. August 14, 1938 drive to old
abandoned CCC camp on North Mt. near
Devils Hole Mt. and do most of collecting
here in low ground below spring at
the abandoned CCC camp; alt. about 3800 ft.

{ what in Carex ovales authority
{ see #4779

Oct. 5, 1938. To Hoperell Gap (north)
with Dr. F. J. Hermann.
B-2-B-1

Prunus nigida forma globosa = #5688
(Oct. 9, 1938)

Manufactured by
U. S. Government Printing Office

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on Short Mountain, Massachusetts;
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Dr. F. J. Hermann on July 30,
1938 identified all my northern Cyperaceae
from Mt. Katahdin and Mt. Washington
areas. He has recently come into the
Division of Plant Exploration and
Introduction as Associate Botanist.
He is a very likeable and confident
bellow it would appear.

am submitting all my Virginia
Cyperaceae to him today, Aug 1, 1938 on
his request. all Cyperaceae in this book
identified by him (see lists)

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of collecting
spring at
alt. about 3800 ft.
authority

of (north)

with Dr. F. J. Hermann.
B-2-B-1

Manufactured by
U. S. Government Printing Office
Pinus rigida forma globosa - #5688
(Oct. 9, 1938)

Plants collected by Dr. F. J. Hermann
coll with me in Bull Run Mt Oct. 5, 1938.

on #9887: *Loefdeya stipulacea* Moench
Mr cold field wet slope near Mrs. Coyle's.

Thru #9888 *Aralypha gracilens* Gray
da near brook - wet slope below White Rocks.

#9905 *Bartonia virginica* (L.) BSP
jun in valley road on bank north of
Gap Mrs. Ashby's

Mo # *Monotropa hypopitys* var. *rubra* (Torr.) Tuckerm.
in woods near #9905

al add these to my list when pub.

To: (How about *Digitaria bififormis* ?
~~*Syntherisma*~~)

1938

from

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Rubus laciniatus Willd.
- #5614 - (Sept. 22, 1938)

#4216a = *Cladonia furcata* var. *ramosa* (Noffm.) Tuckerm.
#5757a = *C. cristatella* f. *ochrocarpia* Tuckerm. → Tuckerm.
#5772a = *C. " f. cyphulifera* Sandst. → Tuckerm.
all in Bull Run Mt.

#4618 = *Cladonia squamosa* f. *brevicincta* (Del.) Evans
and (" " *rigida* Del. according to
Sandstede, on Little Stony Creek. Dent's Hole Mt.

#6066 *Cladonia squamosa* f. *dasariella* Wain.
Side. Sandstede - 4 from Bull Run Mt.

#5054 = *Cetraria islandica*.

See 4784 - water plant at
Berkeley Mill.

Pure white *Prunella vulgaris*
= #5353.

Carex virescens Muhl
4767 wooded slope at
sprouting spring,
(3) above Bererley Mill
(Ident by F. J. Hermann.)

Bull Run Mt., Va
Fauquier Co.,
Thoroughfare Gap,
May 22, 1938
H. A. Allard.

Senecio smallii Britton
4768 on railroad bank at left
(3) of railroad above (west) of Bererley Mill.
abundant; full bloom ditto
e

4769 *Oxalis violacea* L.
(1) on Broad Run flood plain
above Bererley Mill ditto
abundant, full bloom in damp woods etc. e

4770 *Hydrophyllum virginianum* L.
(2) on flood plain of Broad Run
just above Bererley at left of railroad.
abundant here: full bloom. My first
locality for Bull Run area. ditto
e

4771 *Carex rostrata* Schreb.
(1) Flood plain on Broad Run
above Bererley Mill in moist,
shaded woods here ditto
Ident. by F. J. Hermann e

4772 *Carex caroliniana* Schreb.
(1) Growing with # 4771 ditto
(Ident. by F. J. Hermann) e

4773 *Houstonia purpurea* L.
(1) Growing with # 4771 ditto
e

Enphorbiaceae

4774 on flood plain
of Broad Run
(1) above Bererley Mill.

Bull Run Mt., Va
Thoroughfare Gap,
Fauquier Co.
May 22, 1938
H. A. Allard.

= *Tithymalus obtusatus* (Pursh.) K. S. G. G. G. e

4775 *Carex lurida* Muhl. ditto
e

(1) on flood plain with # 4774
(Ident by F. J. Hermann)

4776 *Carex blanda* Deney
(2) 2 nearby *Poa trivialis* L. on stream ditto
Growing with # 4774: abundant. e
(Ident by F. J. Hermann.)

4777 *Carex blanda* Deney
(1) Growing with # 4774 ditto
and *Carex lasiocarpa* (Kuhn) Muhl. Ident. by F. J. Hermann. e
= 4777A

4778 *Juncus*
also (1) on Broad Run with # 4774 ditto
Juncus acuminatus Michx. *Carex blanda* Deney
= 4778A Ident. by F. J. Hermann. e

4779 Cyperaceae
(1) Growing with # 4774 ditto
Carex blanda Deney
Ident. by F. J. Hermann. e

4780 *Carex lurida* Muhl.
(2) Growing with # 4774 ditto
(Ident by F. J. Hermann.) e

Carex laevigata (Kühn) Mark Bull Run Mt., Va.
on flood plain Thoroughfare Gap.
4781 of Bull Run Broad Run Fauquier Co
in woods below May 22, 1938
|| rail road just above H.A. Allard
Beverley Mill. (Ident. by F. J. Hermann) e

4782 *Carex laevigata* (Kühn) Mark ditto
|| Growing with # 4781
(Ident. by F. J. Hermann.) e

4783 *Juncus macr.* S. F. Gray ditto
|| Growing with # 4781
(Ident. by F. J. Hermann.) e

4784 *Chara* ditto
|| *Nitella*

In stagnant pool on Broad Run
flood plain just above Beverley Mill.
4785 May first record of this in Bull Run area.
Note branched branches. Pool filled
with algal scum and large eggs.
|| *Graminea obtusa* Spreng.
Growing near # 4781 ditto e

4786 *Carex ginea* Wahl. ditto
|| Growing with # 4781
(Ident. by F. J. Hermann) e

4787 *Conoclophus* ditto
|| *Hepaticae*.
On wet bank on Broad Run
just above Beverley Mill.
Jamesoniella autumnalis (DC.) Steph. e

Bull Run Mt., Va.
Thoroughfare Gap
Moss
On wet soil beside Broad Run
4788 just above Beverley Mill Fauquier Co
May 22, 1938
|| H.A. Allard

4789 *Hepaticae* ditto
|| On wet bank on Broad Run
just above Beverley Mill

4790 Moss ditto
|| Growing with # 4788

4791 Lichen ditto
|| On rocks mostly submerged
in Broad Run just above
Beverley Mill. Hard, crustose,
light ashen gray color. Terracedly
held on rocks, at practically at water line.

4792 *Crataegus crus galli* L. ditto
|| (2) anthers yellow
In meadow beyond Beverley Mill west of
Thoroughfare Gap. a few flowers open
4793 still evident; mostly past fl. e

(2) *Carex annexens* Bickn ditto
In meadow north of Broad Run
station at left of mill road, where
cooling station stands and R.R. trestle
sharply recedes toward The Plains.
all plants B. ident. by Hermann. e

4794 *Carex annexens* Bickn ditto
|| In same meadow as bog with # 4793.
(Ident. by F. J. Hermann) e

Carex stipitata Michx.
In bog just north of
Broad Run Station
4795 and west of rail road
(2) where coalbing station is
and rail road turns sharply
west to The Plains. (Ident. by F. J. Hermann) e

Bull Run Mt., Va
Thoroughfare Gap
May 22, 1938
H. A. Allard

4796 *Carex vulpinoidea* Michx.
(2) Growing with # 4795
all from one clump E.
(Ident. by F. J. Hermann) ditto e

4797 *Carex vulpinoidea* Michx.
(1) Growing with # 4795
(Ident. by F. J. Hermann) ditto e

4798 *Carex vulpinoidea* Michx.
(3) Growing with # 4795
all of clump C
(Ident. by F. J. Hermann) ditto e

4799 *Carex vulpinoidea* Michx.
(1) Growing with # 4795
(Ident. by F. J. Hermann) ditto e

4800 *Carex gracilescens* Steud. (not in Michx.)
(3) In same bog with # 4795
(all from clump i) and
(Ident. by F. J. Hermann) ditto e

4801 *Carex lurida* Vahl.
(4) In same bog with # 4795
(all from clump j)
(Ident. by F. J. Hermann) ditto e

Spiraea latifolia
In meadow
4802 above Broad Run
Station and between
rail road and highway from #55
to Haterell Gap. My first record of this
in Bull Run area; not in flower; e
one clump, only, found.

Bull Run Mt., Va
Thoroughfare Gap
Fauquier Co.
May 22, 1938
H. A. Allard.

4803 *Sisyrinchium graminoides* Bicknell
(3) Growing with # 4802;
abundant, full bloom. ditto e

4804 *Carex laevigata* (Kirkenth.) Mack.
(2) Growing with # 4802
(Ident. by F. J. Hermann) ditto e

4805 *Glyceria striata* (Lam.) Hitchc.
(1) Growing in snail with # 4802;
abundant near everywhere in
red ground; full bloom; e
very attractive.

4806 *Carex lurida* Vahl.
(2) In bog with # 4802
(Ident. by F. J. Hermann) ditto e

4807 *Carex incomperta* Bickn.
(1) Growing with # 4802
(Ident. by F. J. Hermann) ditto e

4808 *Carex festuacea* (Schubert) imatne
(1) Growing with # 4802
(Ident. by F. J. Hermann)
= *C. normalis* ditto e

Carex gracilescens Steud. Bull Run Mt., Va.
In bog just north of Thoroughfare Gap,
Broad Run station, Fauquier Co.
4809 and between highway May 22, 1938
(1) to Hagerell Gap and railroad. H.A. Allard
(not typical)
(ident. by F. J. Hermann)

4810 *Sisyrinchium graminoides* Michx.
(2) Growing with # 4809 ditto
in same meadow; abundant; full
bloom.

4811 *Carex grisea* Wahl. ditto
(2) Growing with # 4809
(ident. by F. J. Hermann)

4812 *Carex gracilescens* Steud. (not typical) ditto
(1) Growing with # 4809
(ident. by F. J. Hermann)

4813 *Carex laeviraginata* (Kükenth.) Mark. ditto
(2) Growing with # 4809
(ident. by F. J. Hermann)

4814 *Carex vulpinoidea* Michx. ditto
(1) Growing with # 4809
(ident. by F. J. Hermann)

4815 *Carex vulpinoidea* Michx. ditto
(1) Growing with # 4809
(ident. by F. J. Hermann)

Carex laeviraginata (Kükenth.) Mark. Bull Run Mt., Va.
all from one clump # K Thoroughfare Gap
4816 Growing in bog with # 4809 May 22, 1938
(2) ident. by F. J. Hermann. H.A. Allard

4817 *Carex lurida* Wahl. (immature) ditto
(2) Growing with # 4809
all from one clump L
(ident. by F. J. Hermann)

4818 *Senecio smallii* Britton ditto
(2) In meadow with # 4809:
abundant; full bloom

4819 *Sphenopholis intermedia* (Rydb.) Rydb. ditto
(2) On wooded bank by Hagerell
Gap road, west slope just north of
Broad Run station.
full bloom; attractive.

4820 *Lonicera japonica* Thunb. ditto
(5) Road side at Broad Run station
west slope; flowers reddish pinkish,
as compared with those of other plants.
abundant; full bloom in thickets.

4821 *Camelina microparva* Andrz. ditto
(2) Railroad banks just above
Berkeley Mill; abundant here; passing.

4822 *Anthemis arvensis* L ditto
(3) on railroad at Berkeley Mill;
abundant here; full bloom.

Medicago lupulina L. Bull Run Mt., Va.
Legume. Tranter Co.
fl. yellow; seeds reticulated black; Thoroughfare Gap,
4823 (2) nestled along May 22, 1938,
railroad at Thoroughfare Gap, H.A. Allard.
Berkeley Mill: abundant here; bull bloom.

4824 *Carex squarrosa* L. ditto
In flood plain of Broad Run
just above Berkeley Mill.
Heads almost globose.
(Ident. by F. J. Hermann)

4825 *Panicum fasci* Poir. all arts garden
(4) In rock garden; 3000-7th St. N.,
abundant forming Arlington, Va.
large clumps. May 25, 1938,
H.A. Allard.
e

4826 *Potentilla recta* L. Near Clark Station, Va.
(4) Roadside near rail cross Arlington Co.
brick yard; bull bloom. May 25, 1938.
Rare in this area. H.A. Allard.
e

4827 *Lierum*
(1) On stone in woods
Three Mile Mt., Va.
Shenandoah Co.
May 28, 1938
H.A. Allard

4828 *Amelanchier canadensis* (L.) Medic. ditto
(2) On steep ledge outcrops
at top; very abundant; ripening;
fruit red.

4829 ditto
(1) On top of rocky outcrop, dry
Panicum ashei Pers.

Umbilicaria pustulata Three Mile Mt., Va.
Shenandoah Co.
on dry sandstone May 28, 1938
4830 outcrops and ledges H.A. Allard
everywhere at top; very abundant.

4831 Mass. ditto
(1) a solid over on dry shales
where a huge hole made by prospectors
for coal in past; in heavy woods.

4832 *Cladonia* ditto
(1) reindeer moss
Low down on north slope
on soil

4833 Lichen ditto
(1) *Peltigera*?
silver gray. Low down on north slope
on soil; abundant here. Have never met with
this sp. before

4834 *Carex vulpinoidea* Michx. ditto
(1) In wet meadow at foot north
slope near wheat & cornfield here.
(Ident. by F. J. Hermann)

4835 *Cyperus lineatus* Michx. ditto
(2) at foot of north slope
in wet meadow near
Stony Creek. (Ident. by F. J. Hermann)

4836 *Carex swanii* (Torr.) Mark. Devil's Hole Mt., Va.
(1) In dry soil below Shenandoah Co.
My Mine's where we May 30, 1938
parked car on Little H.A. Allard.
Stony Creek. (Ident. by F. J. Hermann)

Carex mullerbergii Schreb. Shenandoah Mt. Va
By roadside May 30, 1938
4837 where re park H.A. Allard
(1) car just below Shenandoah Co.
Mr. Hines' place in dry soil &
(Ident. by F. J. Hermann)

4838 Moss Trail down Mill Mt. Va
(1) wood road along Shenandoah Co.
Little Stony Creek & May 29, 1938
well above Coffelt's H.A. Allard
on soil a brilliant, scintillant yellowish green.
with a silky, silvery sheen & very beautiful.
4839 *Carex granulata* Michx. Shenandoah Mt. Va
(3) all from clump A on north slope
at parking place Shenandoah Co.
below Hines' house. May 29, 1938
(Ident. by F. J. Hermann) H.A. Allard

4840 Moss Three Mile Mt. Va
(1) In damp ravine on rocks in damp ravine
deep down in moist on north slope
rock surfaces Shenandoah Co.
May 28, 1938
H.A. Allard

4841 *Cyrtus breatus* Michx. ditto
(2) at spring at foot of north
slope in open area in
red soil. (Ident. by F. J. Hermann)

4842 *Carex squarrosa* L. ditto
(6) In wet shady spring
in open at foot of north slope
(Ident. by F. J. Hermann)

4843 Lichen
(1) In damp ravine on soil.
Color ashen gray. & ditto
Peltigera ? abundant here.

Lichen - Three Mile Mt. Va
on rocks Shenandoah Co.
near # 4843 May 28, 1938
4844 in same ravine H.A. Allard
(1) abundant here

4845 *Asarum canadense* L. ditto
(3) Shaded woods on north
slope half way down:
abundant; full bloom; flowers
hidden beneath the duff. &

4846 *Ribes coccineum rotundifolium* (Michx.) Cor. Britt. ditto
(2) On upper slope near
ledges; scattered.
(white lines at foot) &

4847 *Bupleurum rotundifolium* L. ditto
(5) On highway near woodstock Great Valley
Locally abundant here; full near woodstock
bloom Shenandoah Co. Va.
May 29, 1938
H.A. Allard

4848 Mint - *Blaphilia ciliata* Raf. ditto
(4) Purple flowered; by roadside
near Manassas on Valley Pike; ditto
only one colony seen.
very showy in grass; stools

4849 Moss Three Mile Mt. Va
(1) In damp ravine Shenandoah Co.
with # 4843 on bank May 28, 1938
a brilliant silvery green with H.A. Allard.
a lively sheen.

4850 Moss ditto
(1) on rocks in same ravine
with # 4843

Moss
on rocks in damp, shaded ravine on
north slope half way down.
4851
(1) Three Mile Mt., Va.
Shenandoah Co., Va.
May 28, 1938
H.A. Allard.

This a very damp moss, covered ravine
extremely damp, shaded and rich in mosses.

4852 Moss
(1) In same ravine with #485 ditto
on rocks

4853 *Carex cephalophora* Muhl.
(1) on bank near Mill Mt. in woods
(ident. by F. J. Hermann)
On trail down to Mr. Coffelt's along
Little Stony Creek.
Shenandoah Co.
May 29, 1938
H.A. Allard

4854 *Cladonia*
(1) (Reindeer Moss).
On trail near #4853 ditto

4855 *Carex hirsutella* Mark.
(1) Damp soil on same trail
in woods near #4853 ditto
(ident. by F. J. Hermann.)

4856 Moss
(1) Submerged on rocks in cold
brook flowing into Little Stony Creek,
in woods 2 miles above Coffelt's.
bright green, ditto

4857 *Carex acutirostris* Schumacher.
(1) Growing in wet soil
near #4856. ditto
(ident. by F. J. Hermann)

Carex sofaria Schumacher. On trail from Mill Mt., Va.
Shenandoah Co., Va.
May 29, 1938
H.A. Allard.
4858 In wet spot
by brook 3 miles
up Little Stony Creek from Coffelt's
(ident. by F. J. Hermann)

4859 *Carex incompta* Bickn.
(2) Growing in road side ditto
near #4858
From same clump A.
(ident. by F. J. Hermann)

4860 *Hepatic*
(1) On rocks in
damp wooded ravine
half way down north
slope; abundant. ditto
Three Mile Mt., Va.
Shenandoah Co.
May 28, 1938
H.A. Allard.

4861 Moss
(1) In same ravine with
#4860 on rocks ditto

4862 Moss
(1) On rocks with #4860 ditto

4863 Moss
(1) On rocks with #4860 ditto

4864 Moss
(1) On rocks with #4860 ditto

Moss
on rocks in damp
wooded ravine
4865 on north slope
(1)

Three Mile Mt., Va
Shenandoah Co
May 28, 1938
H.A. Allard

4866 In same ravine with
(1) X 4865 on rocks; in same
ravine about 455' up
The only ravine I visited and explored on
the north slope; color a very dark green.
4867 It grows down into deep shade lower, as
between the rocks.
(1) Moss
on rocks in same ravine
with X 4865 ditto

4868 *Carex hirsutella* Mark.
(1) On wood road just
above Mrs. Coffelt's on trail
to Mill Mt. ditto
Identified by F. J. Hermann
Mill Mt., Va
on trail along
Little Stony Creek,
Shenandoah Co.
May 28, 1938
H.A. Allard.

4869 *Veronica americana* Schwein
(1) By brook just above Mrs. Coffelt's
(flower blue) ditto

4870 *Mitchella repens* L.
(1) On bank abundant by
wood road just above Mrs. Coffelt's
on Little Stony Creek.
buds brown red in fruit ditto

4871 *Asplenium montanum* Willd.
(1) On ledge about 1 mile above
Coffelt's; growing in crevices on vertical
cliffs here in deep shade; abundant here.

Moss
on soil on wood
road by Little
4872 Stony Creek.
(1) a beautiful, bright satiny green.
Roman trail of Mill Mt. Va
along Little Stony Creek,
Shenandoah Co.
May 28, 1938
H.A. Allard.

4873 Moss
(1) on rocks in brook ditto
submerged near X 4872

4874 Moss
(1) submerged on rocks with
X 4873 in cold brook. ditto

4875 *Medicago sativa* L.
(4) By roadside near
Woodstock, Va.; full
blossom; fl. blue purple
Great Valley, Va
Shenandoah Co.
May 30, 1938
H.A. Allard.

4876 *Cyperus setosus linearis* Michx.
(3) At bridge near Columbia Turnpike
growing on edge of Stony Creek here
(all from one clump) (Ident. by F. J. Hermann) ditto

4877 Grass
(1) Growing beside X 4876
(not abundant here); full flower,
Phalaris arundinacea L. ditto

4878 *Bromus commutatus* Schrad.
(2) on higher ground near X 4876; ditto
abundant by roadside near stone
bridge here.

~~Bromus~~ *Festuca elatior* L
Growing by
4879 roadside, abundant,
(2) near stone bridge
near Columbia Turnpike,
full bloom.

Great Valley of Va
Shenandoah Co.
May 30, 1938
H.A. Allard

Growing with # 4878,

4880 *Scirpus validus* Vahl.

(2) Growing in mud and
water near # 4876 near
(one clump) Columbia Turnpike,
(ident. by F. J. Hermann)

ditto

4881 *Carex hirsutella* Michx.

(3) not shot by roadside opposite
(N.) of Three Mile Mt., Va.
(all from one clump)
(ident. by F. J. Hermann)

ditto

4882 *Scirpus hirsutus* Michx.

(10) Growing in same wet spot
beside # 4881.
(all from one clump.)
(ident. by F. J. Hermann)

ditto

4883 *Panicum boscii* Poir

(3) On steep wooded rocky slope
across Little Stony Creek from Coffelt's
(all from one clump)

ditto

4884 *Panicum huachucae* Ashe

(3) Growing below Hines near Little
Stony Creek where we park car

ditto

4885 *Arrhenatherum elatius* (L.) Mert.

(4) Growing by roadside near
4884: very abundant here;
full bloom. Reflects a silvery light.

Rock

~~Carex~~ *Carex* ~~Boott~~
Beside Little Stony
Creek where we park
car below Hines' house
(ident. by F. J. Hermann)

Great Valley of Va
Shenandoah Co.,
May 30, 1938
H.A. Allard

4886

(1)

4887 *Carex muhlenbergii* var *enervis* Boott

(1)

Growing in drier ground
close to # 4886
(ident. by F. J. Hermann)

ditto

Boott and

C. Elyhalophora Muhl.

4888 *Lierwort*

(1)

on rocks in very
heavily wooded damp
ravine; abundant
here.

Three Mile Mt. Va
May 28, 1938
Shenandoah Co.
H.A. Allard

with slope.)

4889

(1)

Moss
Very dark green mats on
rocks with # 4888
abundant here.

ditto

4890

(1)

Moss
On rocks in same ravine
with # 4888: abundant.
a lusterless but clear green.

ditto

4891 Moss

(1)

Growing on rocks near # 4888

ditto

4892 Moss

(1)

Growing on rocks with # 4888

ditto

mass
on rocks in damp
4893 moded ravine
with slope, half
way down
a beautiful bright green species with
a satiny sheen
especially beautiful

Three Mile Mt., Va

May 28, 1938

H.A. Allard

Shenandoah Co

4894 *Magnolia acuminata* L. Great Valley of Va.
(2) Near Mr. Hines' road of Edinburgh 10 miles
house where we park Shenandoah Co
cars on Little Stony Creek, May 30, 1938
4895 a huge tree 2 ft thick
50-60 feet high. H.A. Allard.

(1) *Cladonia rangiferina*
in shale at place
4896 *Cetraria islandica* abundant
This lichen very abundant among the
Cetraria islandica
with # 4895

Short Mountain
Massanutten Range

May 12, 1938

H.A. Allard

4897 *Cladonia*
(1) cup-formed
growing on shale with # 4895
(Not in order of collection)
ditto

4898 *Tragopogon porrifolius* L.
(6) (purple flowered) some with very short
rays and deeper red-purple in color.
all from near Woodstock. May 29, 1938; many
with mature seed heads; very showy

4899 *Tragopogon dubius* L.
(5) From near # 4898; sub. sk. major (young) Volkm.
all yellow flowered; bracts on 3 plants
13; on two 12; some at later than the
purple; just maturing seed; about as abundant
as purple.

Euphorbia lathyris (L.) Mill
Tithymalus
By roadside near
4900 Hines house
park car off
(3) Little Stony Creek; abundant here.
C

Great Valley of Va.

Shenandoah Co

May 30, 1938

H.A. Allard

4901 *Alliaria canadensis* L.
(2) Roadside near where we
park car not far from # 4900
in flower and producing bulbils. e
ditto

4902 *Gnaglossum officinale* L.
(3) In pasture back of Coffelt's
at foot of Little Stony Creek.
(abundant: full bloom) e
ditto

4903 *Oenothera knieffia* (L.) Spach.
(1) on grounds of Agriculture,
in Washington, D.C. at
14 and Independence^{N.W.} beside
South Bldg. H.A. Allard
June 3, 1938

4904 *Potentilla recta* L. Bull Run Mt. Triassic area
(1) Broadside and edge of flat
field between Haysmarked June 5, 1938
and right turn west leading to Antioch. abundant; full bloom here.
H.A. Allard. e

4905 *Holcus lanatus* L.
(7) abundant in old field and
pasture and by roadside near
Antioch on right as we leave
Haysmarked to Antioch route from Bull Run area
My first record for Bull Run area
Not here last year. or very scarce
Prince William Co
Triassic area
June 5, 1938
H.A. Allard. e

4906 *Panicum ashei* Pers.
(2) Reddish lilac suffusion on tips of glumes
growing grass in mass a road cut east
On cliffs top of High Point. Bull Run Mt. Va.
Tangmer Co.
June 5, 1938 H.A. Allard

Carex digitalis Willd.
woods west slope below
4907 High Point.
(1) (Ident. by F. J. Hermann)

Bull Run Mt., Va
June 5, 1938
Fauquier Co
H.A. Allard.

4908 *Carex cephalophora* Muhl.
(1) Growing near # 4907
(Ident. by F. J. Hermann)

ditto

4909 *Carex digitalis* Willd.
(2) Growing with # 4907
(Ident. by F. J. Hermann)

ditto

4910 *Panicum lucidum* Ashe (Vernal phase)
(2) In rocky swampy ravine below
High Point west slope, in deciduous
woods.

ditto

4911 *Festuca obtusa* Spreng
(2) Near # 4910

ditto.

4912 *Carex gracilescens* Steud.
(4) In pasture areas from High Point
(west) on Plains area where *Malus glaucescens*
Rehder grows.
(all from one clump) abundant.
(Ident. by F. J. Hermann)

ditto

4913 *Carex muhlenbergii* var. *enervis* Boott.
(1) Growing with # 4912
abundant: usually few stemmed
individuals. (Ident. by F. J. Hermann)

ditto

Panicum lucidum Ashe Bull Run Mt., Va
Fauquier Co.,
Growing near # 4912 June 5, 1938
H.A. Allard.

4914

(1)

4915 *Carex cephalophora* Muhl.
(1) In deciduous woods
south of pasture where
Malus glaucescens Rehder grows.
on Plains area west of High Point.
(Ident. by F. J. Hermann)

ditto

4916 *Carex luschii* Mack
(1) Growing near # 4912
(Ident. by F. J. Hermann)

ditto

4917 *Carex cephalophora* Muhl.
(1) Growing with # 4912
(Ident. by F. J. Hermann)

ditto

4918 *Carex hirsutella* Mack
(1) same locality with # 4912
(Ident. by F. J. Hermann)

ditto

4919 *Carex cephalophora* Mack
(1) Growing with # 4912
(Ident. by F. J. Hermann)

ditto

4920 *Carex hirsutella* Mack.
(1) Growing with # 4912.
(Ident. by F. J. Hermann)

ditto

Graminaceae
In pasture, west of
High Point on Plains
area where *Muhlenbergia glaucescens* Rehder grows.
4921 *Danthonia compressa* Austin
" (Ident. by F. J. Hermann)
Bull Run Mt., Va
Fauquier Co.,
June 5, 1938
H. A. Allard.

4922 *Carex cephalophora* Muhl.
" Growing with # 4921
(Ident. by F. J. Hermann)
ditto

4923 *Sphenopholis intermedia* Rydb.
" In white Oak grove west of
High Point on Plains area; the large
white Oaks here.
ditto

4924 *Carex muhlenbergii* var. *energis* Boott
" Growing with # 4921
(Ident. by F. J. Hermann)
ditto

4925 *Carex muhlenbergii* var. *energis* Boott
" Growing with # 4921
(Ident. by F. J. Hermann)
ditto

4926 *Carex hirsutella* Mark.
" Growing with # 4921
(Ident. by F. J. Hermann)
ditto

4927 *Danthonia spicata* (L.) Beauv.
" with # 4921
ditto

" *Carex hirsutella* Mark. Bull Run Mt., Va
Fauquier Co.,
June 5, 1938
H. A. Allard.
4928 (Ident. by F. J. Hermann)
" (Ident. by F. J. Hermann)

4929 *Carex muhlenbergii* var. *energis* Boott
" Growing with # 4921
(Ident. by F. J. Hermann)
ditto

4930 *Carex muhlenbergii* var. *energis* Boott
" Growing with # 4921
(Ident. by F. J. Hermann)
ditto

4931 *Carex hirsutella* Mark.
" Growing with # 4921
(Ident. by F. J. Hermann)
ditto

4932 *Carex muhlenbergii* var. *energis* Boott
" Growing with # 4921
(Ident. by F. J. Hermann)
ditto

4933 *Panicum scribnerianum* Nash
" Growing with # 4921
ditto

4934 *Carex cephalophora* Muhl.
" Growing with # 4921
(Ident. by F. J. Hermann)
ditto

Panicum huachucae Ashe Bull Run Mt., Va.
in pasture west of
High Point on Plains
area where *Malus*
glaucescens grows.
Fauquier Co.,
June 5, 1938
H.A. Allard.

4935
" *Labiatae*.
In the pine white oak
woods west of High Point.
= *Parietaria pennsylvanica* Muhl.

4936
" *Carex cephalophora* Muhl.
growing with # 4935
(Ident. by F. J. Hermann)

4937
" *Carex muhlbergii* var. *enervis* Boott.
Growing with # 4935
(Ident. by F. J. Hermann)

4938
" *Carex muhlbergii* var. *enervis* Boott.
Growing with # 4935
(Ident. by F. J. Hermann)

4939
" *Carex cephalophora* Muhl.
Growing with # 4935
(Ident. by F. J. Hermann)

4940
" *Panicum scribnerianum* Nash.
Growing with # 4935

Carex cephalophora Muhl., Bull Run Mt., Va.
Fauquier Co.
Growing with 4935
June 5, 1938
H.A. Allard.
(Ident. by F. J. Hermann)

4941
" *Panicum basii* var. *molle* (Vasey) H. & A. C.
In woods south of
here # 4935 grows; deciduous.

4942
" *Carex scoparia* Schkuhr
In wet boggy meadow along creek
just across Hopewell to Broad Run Station road
near white oak grove and high black walnut
tree; very wet, boggy here.
(Ident. by F. J. Hermann)

4943
" *Carex vulpinoidea* Michx.
Growing near # 4944
(Ident. by F. J. Hermann)

4944
" *Carex vulpinoidea* Michx.
Growing with # 4944
(Ident. by F. J. Hermann)

4945
" *Carex scoparia* Schkuhr,
Growing near # 4944
(Ident. by F. J. Hermann)

4946
" *Carex vulpinoidea* Michx.
Growing in same bog with # 4944
(Ident. by F. J. Hermann)

Carex scoparia Schreb. Bull Run Mt., Va
In bog near Haperell Gap Tranquar Co
4949 (2) mid slope from High Point June 5, 1938
where big plants naturally stood H.A. Allard
below White Oak grove just
west of Haperell to Broad Run station
(Ident. by F. J. Hermann) e

Carex vulpinoidea Michx. ditto
4950 (2) Same bog near # 4949
(Ident. by F. J. Hermann) e

Bromus japonicus Thunb. ditto
4951 (3) In field (Castellia) where stone
crusher was, just below quarries
abundant.
In cultivation 19 e

Juncus macrocarpa S. F. Gray ditto
4952 (1) Growing with # 4951
(Ident. by F. J. Hermann) e

Houstonia purpurea L ditto
4953 (2) Growing with # 4951
abundant; full bloom: showy e

Trifolium procumbens L ditto
4954 (2) In same field; very abundant
in this pasture where # 4951 grows. e

Dianthus armeria L ditto
4955 (1) In same field with # 4951.
also single, but abundant; also in
high brown sedge field beyond where
abundant, but less so than in river field. e

Carex lasiocarpa Lam Bull Run Mt., Va
In woods beyond Tranquar Co.
4956 (1) fine brown sedge June 5, 1938
pasture beyond Castellia, H.A. Allard.
west slope near Haperell Gap.
(Ident. by F. J. Hermann) e

Carex hirsutella Mack. ditto
4957 (1) In high brown sedge field
(a. scoparia) where so finely developed
west slope just south of Haperell Gap.
(Ident. by F. J. Hermann) e

Carex hirsutella Mack. ditto
4958 (1) In same field with # 4957
(Ident. by F. J. Hermann) e

Carex hirsutella Mack. ditto
4959 (5) Growing in same brown sedge field
with # 4957: scattered all over
this splendid brown sedge stand.
(Ident. by F. J. Hermann) e

Festuca obtusa Spreng. ditto
4960 Gramineae
(1) In woods beyond brown sedge
field near # 4956 e

Panicum torbulatum Michx. ditto
4961 (1) In brown sedge field where # 4957 grows. e

Carex constricta Mack. ditto
4962 (1) In woods beyond fine brown sedge
field, - ie with # 4956 e
(Ident. by F. J. Hermann)

Carex hirsutella Mark.
In woods
just beyond fine
4963 brownedge field
" beyond Castello's,
on west slope just south of Hoperell Gap.
(Ident. by T. J. Hermann)

Bull Run Mt., Va.
Fauquier Co.,
June 5, 1938
H. A. Allard.

4964 *Carex lurida* Wahl.
(4) Beside brook in bog where huge
black walnut tree grows, i.e. near
fine white oak grove. (Ident. by T. J. Hermann)
Very abundant here.

4965 *Carex vulpinoidea* Michx.
(6) In same bog with # 4964
abundant. (Ident. by T. J. Hermann)

4966 *Carex laeviraginata* (Kühnenth.) Mark.
(1) In same bog with # 4964
(Ident. by T. J. Hermann)

4967 *Juncus effusus* var. *solutus* Torr. et Griseb.
(2) Tall; in same bog with # 4964
very abundant (Ident. by T. J. Hermann)

4968 *Dianthus armeria* L.
(4) In same fine brownedge field
with # 4957: abundant; just blown.

4969 *Panicum depauperatum* Muhl.
(2) Growing in same brownedge
field with # 4957: abundant here.

Panicum depauperatum Muhl. Bull Run Mt. Va.,
Fauquier Co.
In high brownedge
4970 field with # 4957 June 5, 1938
H. A. Allard.
" "

4971 *Graminaceae*
(2) In pasture by brook
near Big Black Walnut tree just
west Hoperell-Broad Run highway

4972 *Panicum depauperatum* Muhl.
(1) In brownedge field with # 4957

4973 *Carex hirsutella* Mark.
In high brownedge field so
(3) well developed beyond Riley cabin
beyond Castello's; abundant among duffs.
(Ident. by T. J. Hermann)

4974 *Carex laeviraginata* (Kühnenth.) Mark.
(3) In bog with # 4964: abundant
(Ident. by T. J. Hermann)

4975 *Carex hirsutella* Mark.
(1) In brownedge field
near brook where white oak grove is.
(Ident. by T. J. Hermann)

4976 *Bromus japonicus* Thunb.
(1) In low ground near # 4975:
It is a very abundant grass in
all pastures etc. in area.

Carex vulpinoidea Michx. Bull Run Mt., Va
in bog near brook
49777 ~~under old oak~~ ~~valmt~~
the grass - is just east of H.A. Allard
white oak grove
(ident. by F. J. Hermann)

49778 *Glyceria striata* (Lam.) Hitch.
(3) In same bog with # 49777:
very abundant

49779 *Juncus acuminatus* Michx.
(1) Growing with # 49777
(ident. by F. J. Hermann)

4980 *Poa trivialis* L.
Graminal
(1) In field, near # 49777, damp
ground near brook.

4981 *Dactylis glomerata* L.
(1) Old field near # 49777, low ground:
everywhere abundant.

4982 *Bromus cuneatus* Schrad.
(1) In low ground bog with # 49777:
abundant here

4983 *Carex scoparia* Schkuhr.
(5) In same bog with # 49777,
forming large clumps.
(all from same clump)
(ident. by F. J. Hermann)

Juncus macrocarpa S.F.C. Bull Run Mt., Va
in same bog. Franquien Co
4984 with # 49777 June 5, 1938
(ident. by F. J. Hermann)

4985 *Carex scoparia* Schkuhr.
(1) In same bog with # 49777 ditto
(5) (one clump) very abundant
(ident. by F. J. Hermann)

4986 *Poa trivialis* L.
(3) In same low ground bog
with # 49777: abundant. ditto

4987 *Senecio smallii* Britton
(3) abundant in high brown sedge
field beyond brook and old Riley
cabin S.W. of Castle's: full bloom
abundant everywhere in fields in area.

4988 *Houstonia missouriensis* L.
(2) In same brown sedge field
with # 4987: abundant; full bloom ditto

4989 *Apoecynum androsaemifolium* R.Br.
abundant in same brown sedge
field with # 4987: a constant
weevil: full bloom or just
coming in. ditto

4990 *Rosa virginiana* Mill.
(2) In same brown sedge field
with # 4987: abundant here:
full bloom: showy. ditto

Pentstemon pallidus Small
4991 (9) very abundant by roadside in old field (damp) near Antioch, Tenn. June 5, 1938. H.A. Allard. *Prunice* & *William Co*
road in Bull Run area: not seen here in 1937, or very scarce: now very abundant.
Corolla pale almost white.

4992 *Asplenium platyneuron* Bull Run Mt., Va. June 5, 1938. H.A. Allard. *l*
In fine, browned edge field beyond Riley's, coming in places - around rocks etc. First fern to appear, south of Hagerwell Gap.

4993 *Rosa blanda* virginiana Mill. ditto *l*
In same field with # 4992 abundant: full bloom here

4994 *Apocynum pubescens* R. Br. ditto *l*
In same brown sedge field with # 4992: abundant; just in flower a common constituent of browned edge fields; not in woods.

4995 *Botrychium virginianum* (L.) Sm. ditto *l*
In woods south of Males glaucescens Rehder abundant here all in all mode of Bull Run mfr just shedding spores. also abundant on west slope below High Point.

4996 *Dryopteris goldiana* (Hook.) Gray ditto *l*
In swampy ravine west slope below High Point. Very beautiful.

4997 Lichen
In Alleghenies Varon
on twig, Little Stony Creek west of Columbia Turnpike, Shenandoah Co May 30, 1938. H.A. Allard
on trail to Mill Mt., Va beyond Coffeltz.
(Date out of consecutive order)

On soil In old browned edge fields in bare spaces between clumps. = *Cladonia cristatella* f. *beauvoisii* (Del.) Hain
4998 (11) apothecia red. *vestita* Tuck. (apothecia discolored)
Cladonia ~~plus f. v. s.~~

4999 On soil near # 4998 ditto
C. grayi Mer. [P]

5000 On soil near # 4998 ditto
several *Cladonia piedmontensis* f. *lepidifera* (Wain) Robbins plus f. *squamulosa* Robbins, but rather doubtful

5001 *Cladonia piedmontensis* Mer., but doubtful. ditto
several On soil in old browned edge field with # 4998 apothecia red

5002 *Cladonia cristatella* f. *beauvoisii* (Del.) Hain ditto
several On soil near # 4998 plus f. *vestita* Tuck. (apothecia discolored)

5003 *Cladonia cristatella* f. *beauvoisii* (Del.) Hain ditto
several On soil with # 4998 mostly, but apothecia discolored.
5003c = apothecia red 5003a and 5003b: same as 5003a.
5003d = C. *subcariosa* f. *evoluta* Wain.
C. *verticillata* (Hoffm.) Schaer.

5004 *Cladonia cristatella* f. *beauvoisii* (Del.) Hain ditto
several On soil with # 4998 (apothecia discolored)
5004a. C. *cristatella* f. *vestita* Tuck. " "
5004b = C. *verticillata* f. *evoluta* (Th. Fr.) Stein.
5004c = C. *subcariosa* f. *evoluta* Wain + C. *cristatella* Tuck.

Cladonia
On soil in old
wornedge field.
5005 several apothecia brown
C. pyxidata var. neglecta f. simplex (Ach.) Harm.
Bull Run Mt., Va
South of Haperell Gap
West of Haperell to
Broad Run Sta. highway
June 12, 1938
H.G. Allard

5006 *Cladonia subcariosa* f. *evoluta* (Horn) ditto
with # 5005 (young podetia) main
several? on soil.
apothecia brown

5007 *Cladonia subcariosa* f. *evoluta* (Horn) ditto
several? on soil near # 5005 mostly
5007b = C. *medmontensis* f. *lepidifera* (Horn) ditto
5007a = same as 5007. apothecia brown mostly

5008 *Cladonia verticillata* (Hoffm.) Schaer. ditto
several on soil near # 5005 not very definite as to form.
5008a = C. *verticillata* f. *evoluta* (Th. Fr.) Stein
5008b = C. *subcariosa* f. *evoluta* (Th. Fr.) Stein
apothecia brown (apothecia discolored)

5009 *Cladonia verticillata* f. *evoluta* (Th. Fr.) Stein.
several on soil with # 5005 ditto

5010 *Oenothera fruticosa* var. *vera* Hook.
(5) (sundrops) ditto
on Triassic by roadside near Antioch, e
on road way from # 55 to Antioch.
abundant; full bloom

5011 *Surtellaria integrifolia* var. *typica* Epl. ditto
(1) By roadside near # 5010
scattered; full bloom; showing, here, e

Rumex obtusifolius L. Bull Run Mt., Va
June 12, 1938
H.G. Allard
5012 in waste ground by roadside south of Haperell Gap near south of Haperell Gap.
" old mansion in woods on west slope below High Point.
a very abundant species. e

5013 *Surtellaria ovalifolia* var. *multis* Epl. ditto
" in woods just south of high
wornedge field, on west slope
near High Point. e

5014 *Sphenopholis obtusata* (Michx.) Scribn. ditto
" in woods near # 5013
" scattered through deciduous woods on
the slopes, but weak in making bunches
never abundant; full bloom; delicate. e

5015 *Carex hirsutella* Mack.
12/ From high wornedge field beyond ditto
old Riley cabin south of Haperell Gap.
abundant here but in few stemmed clumps.
all from clumps (G) e
(ident. by F. J. Hermann)

5016 *Carex vulpinoidea* Michx. ditto
" From small or bog beside brook
near big Black Walnut tree, a just
east of old cabin near big White Oak
rose. (ident. by F. J. Hermann) e

5017 *Cladonia* ditto
" and *Leucobryum albidum* (moss) short Mt. Va
on shales with *Cetraria islandica* Shenandoah Co
on S.W. slope of Short Mt., Va June 14, 1938
H.G. Allard

5018 *Cladonia* ditto
" apothecia brown
Growing with # 5017.
Some *Leucobryum albidum* with *Cladonia*

Festuca elatior L. Bull Run Mt., Va
Gramineae, Fannquier Co.,
Roadside south of June 12, 1938
Hofenell Gap $\frac{3}{4}$ mile H.A. Allard
near old mansion in south of Hofenell Gap.
(4) woods on west slope and on east slope below
below High Point; abundant here.

5020 *Oxoclea sensibilis* L. ditto
(2) Low ground thickets near # 5019
Plants very large, most high;
abundant.

5021 *Carex hirsutella* Michx. ditto
(2) In old brown sedge field near # 5019 ditto
but west of stream and Hofenell to Broad Run
station highway; abundant in few stems
clumps among the Andropogon.

5022 *Carex proserpinacifolia* Michx. ditto
(1) In old yard of old cabin, mainly
shaded by trees. A dense pure stand
a sod base of considerable size. Mature
and shattering stems green very.

5023 *Carex floridana* Michx. ditto
(1) In bog south of Hofenell Gap and
old, large black walnut tree old cabin
just west of Hofenell to Broad Run highway.

5024 *Juncus effusus* var. *solutus* Torr. ditto
(3) very abundant in large clumps
in same bog with # 5023
(all from same clump) ident. by F. J. Hermann

5025 *Carex vulpinoidea* Michx. ditto
(3) In same bog with # 5023
abundant; tussock large, old clumps.
(all from one clump)
ident. by F. J. Hermann

Carex vulpinoidea Michx. Bull Run Mt., Va
In bog with # 5023 Fannquier Co.
June 12, 1938
H.A. Allard
5026 (2) ident. by F. J. Hermann

5027 *Carex vulpinoidea* Michx. ditto
(4) In same bog with # 5023
(From one clump)
ident. by F. J. Hermann

5028 *Carex vulpinoidea* Michx. ditto
(5) all from bog with # 5023
(all from same clump.)
ident. by F. J. Hermann

5029 *Juncus acuminatus* Michx. ditto
(4) Growing with # 5023
ident. by F. J. Hermann

5030 *Salix nigra* Marsh. ditto
(5) In same bog with # 5023;
abundant here.

5031 *Apocynum androsaemum* L. ditto
(5) abundant all over high brown sedge
field beyond Rileys old cabin
where they formerly lived.

5032 *Ceanothus americanus* L. ditto
(2) Growing near # 5031; in same
field as an undershrub in this brown sedge
field; abundant; full bloom.

Lysimachia quadrifolia L. Bull Run Mt., Va
In high broomedge Tranquien Co.,
5033 field beyond Riley's June 12, 1938
old cabin home south of H.A. Allard.
(4) of Hopewell Gap: abundant; full bloom.

5034 ~~Spherocephala~~ *Poa compressa* L.

(1) In woods just beyond spring
at Riley's cabin at Castell's
west slope.
abundant; full bloom.

5035 *Carex swanii* (Tern.) Mark.

(1) Growing near * 5034
(ident. by F. J. Hermann)

5036 *Carex swanii* (Tern.) Mark.

(1) Growing near * 5034
(ident. by F. J. Hermann)

5037 ~~Spherocephala~~ *Poa compressa* L.

(1) Growing in same woods with * 5034

5038 *Carex hirsutella* Mark.

(1) Growing near * 5034
(ident. by F. J. Hermann)

5039 *Scutellaria perfoliata* L. DC.

(3) In clearing in woods by
sandstone heap just south of
Riley's spring near their old cabin,
west slope, and just south of Hopewell Gap.

Carex frankii Kunth Bull Run Mt., Va

a huge clump in Tranquien Co.
June 12, 1938
5040 yard of old cabin H.A. Allard.
Riley's lived in

(8) just south of Hopewell Gap.
(much rust on leaves)
(ident. by F. J. Hermann)

5041 *Geranium carolinianum* L.

(3) Growing with * 5040
abundant; nearly past.
var. *confertiflorum* Tern.

5042 *Dianthus spicata* (L.) Beauv.

(1) Near old cabin where
5040 grew; abundant in old
pastures.

5043 *Juncus secundus* Beauv.

(1) In old pasture beyond
Riley's cabin just south of
Hopewell Gap; abundant in
these pastures
(ident. by F. J. Hermann)

5044 *Lobelia spicata* Lam.

(3) In old pasture with * 5042.
abundant here and in clearings
and open woods; full bloom.

5045 *Dianthus armeria* L.

(2) In same old pasture with * 5042
Very abundant; full bloom, and in all old
broomedge pastures

5046 *Stironema ciliatum* (L.) Raf.

(5) In pasture (Castell's) where stone
cumber stood, high up on slope in corn and
wheat 3 years ago; full bloom.

Juncus maritimus S.F. Gray Bull Run Mt., Va
in old pasture Fauquier Co
5047 (*Castellus*) June 12, 1938
" near stone crusher H.A. Allard
stood: very abundant constituent. This
field cultivated 2-3 years ago to corn and
wheat, then abandoned.

5048 *Bromus commutatus* Schrad. (ident. by H. J. Hermann)
" Very abundant in field ditto
above with * 5047
a common species here in old pastures.

5049 *Apocynum* ~~pubescens~~ *pubescens* R. Br.
" (5) abundant, just in bloom in ditto
old pasture with * 5047.

5050 *Gyneros* ~~auriculatus~~ *auriculatus* var. *georgianus* (Harper) Torr.
" In red spot by roadside on Triassic ditto
area near Antioch on road from
Haymarket to Antioch; abundant.
(ident. by H. J. Hermann)

5051 *Achillea* *purpureascens* L.
" Growing with * 5050 ditto
in woods on roadside near Antioch.
Full bloom: occasional here
(flowers deep red-purple)

5052 Lichen
" (Black in color) Short Mt., south end,
on low shale outcrops Massanutten Range
all up slope: abundant June 14, 1938.
here; holds tenaciously to rocks. H.A. Allard

5053 *Cladonia*
" (cup formed) ditto
on soil where *Cetraria islandica*
grows: rather abundant.

Cetraria islandica (L.) Ach. South end of Short Mt., Va
Massanutten Range.
June 14, 1938
5054 On Martinsburg H.A. Allard
shales near road
" where we park car; abundant
(Today Mr. W. W. Diehl and I may
the main colony here).

5055 *Scrophularia* South end of Short Mt., Va
leptocaulis (Picknell) Massanutten Range
June 14, 1938
" on shales (Martinsburg) H.A. Allard
near middle of mt. (went with W. W. Diehl,
slope proper abundant here; passing. Sherandoah Co)

5056 *Pentstemon* ~~canadensis~~ *canadensis* Small.
" (15) Half way up main slope
near * 5056: abundant; full e ditto
bloom; in large clumps.
carolla pale reddish purple.

5057 *Cruciferae* *Sisymbrium* *affinisimum*
" (16) (fl. small, yellow) *affinisimum* (L.) Britton ditto
on shales with * 5056: abundant; e
passing. Leaves very narrow

5058 *Blechnum* *ciliatum* (L.) Raf. ditto
" (7) On shales with * 5056
abundant; in large floriferous clumps;
in full bloom; corolla blue; purple spotted.
a prominent shale plant.

5059 *Draba ramosissima* Desv. ditto
" (2) Growing abundantly with * 5056
half way up the south slope on Martinsburg
shales; full bloom; dense bunches
a characteristic shale plant.

5060 *Santonia* *spicata* (L.) Beaman. e ditto
" (2) On shales all up slope
with * 5056: scattered; vigorous
in spite of dry soils.

Lepidium virginicum L. South end of Short Mt., Va
on dry steep shales Shenandoah Co.
Massanutten range.
5061 slope: abundant: June 14, 1938
15/ full bloom. H.A. Allard
an abundant plant on these shales. e

5062 *Marrubium vulgare* L. ditto
14/ On shales well up main slope with * 5061
very abundant: full bloom: in large clumps:
a characteristic shale plant. e

5063 *Santhus spicata* (L.) Beauv. ditto
2/ On shales south slope. e

5064 *Gramineae: Festuca obtusa* Spreng. ditto
2/ On shales near * 5061
scattered. e

5065 *Santhus spicata* (L.) Beauv. ditto
11/ On shales well up steep slope
with * 5061
abundant in clumps and these large,
vigorous. e

5066 *Bromus pinnatus* L. ditto
17/ abundant well up slope on
shales: beginning to shatter: a
tall, handsome, drooping species, and
prominent on lower shales now. e

5067 *Carex cephalophora* Muhl. ditto
3/ On steep shales leading to
main slope of Short Mt.: abundant
in the open woods here.
(Ident. by F. J. Hermann)

Carex cephalophora Muhl. South end of Short Mt., Va
well down slope Shenandoah Co.
Massanutten range.
5068 here often June 14, 1938
14/ woods: abundant: shattering. e
(Ident. by F. J. Hermann)

5069 *Dianthus armeria* L. ditto
11/ On shales near road
where *Cetraria* colony begins
and here in park: abundant: full bloom

5070 *Carex cephalophora* Muhl. ditto
11/ On shales with * 5069 e
(Ident. by F. J. Hermann)

5071 *Anagallis arvensis* L. ditto
11/ Primrose
with * 5069
abundant here in nearly level
grassy area: full bloom:
fl. scarlet, e

5072 *Antennaria islandica* ~~neo-dioica~~ ditto
2/ On shales with *Cetraria islandica*
scattered. = *Antennaria neo-dioica* Greene. e

5073 *Antennaria neo-dioica* Greene ditto
11/ On shales with *Cetraria islandica*
abundant all over these shales of
South end Short Mt. e

5074 *Carex cephalophora* Muhl. ditto
2/ On shales near main slope
in open stand of trees etc.
(Ident. by F. J. Hermann)

Danthonia spicata (L.) Beauv. Smith end of Short Mt., Va
Massanutten range,
Shenandoah Co.
5075 on shale well June 14, 1938
(21) of main slope. H.A. Allard
abundant: very
vigorous clumps. e

5076 *Monotropa hypopitys lanuginosa* (Muhl.) Kunt. ditto
(1) on shale with *Cetraria islandica* (L.) Ach.
at foot of Chestnut Oak
not common here. e

5077 *Ellecebracae* ditto
(1) on shale with *Cetraria islandica*
- here abundant here. e
Anychia polygonoides Raf.

5078 *Bupleurum* *undifolium* (L.) DC. Great Valley of Va.,
Shenandoah Co. Near Woodstock, Va.,
(10) roadside near June 14, 1938
Woodstock: abundant here. H.A. Allard
full bloom. e

5079 *Pentstemon* *laevigatus* Soland. Bull Run Mts Va
Fauquier Co. June 14, 1938
(12) Fl. white: a large colony H.A. Allard
just west of Thoroughfare Gap
on Plains area in full bloom; not common. e

5080 *Tragopogon porrifolius* L. Great Valley of Va
(8) very abundant: going to Shenandoah Co.
seed, but still some flowering. Near Woodstock, Va.
Flowers purple; very abundant by roadside, e
between Strasburg and Mt. Jackson June 14, 1938
H.A. Allard

5081 *Tragopogon dubius* (L.) subsp. *major* (Jacq.) Vollinger. ditto
(16) very abundant between Strasburg and
Mt. Jackson: full bloom; fl. yellow, e
Woodstock: full bloom; fl. yellow.

Aster virginicus purpuratus Nees Smith end of Short Mt., Va
(A. *virginicus* Ell.) Massanutten range,
Near A. *laevis* col. Shenandoah Co.

5082 maybe a narrow June 19, 1938
leaved form. very H.A. Allard
(1) abundant on shale barrens: idiosyncratic
where car was parked: only one in flower. e
Found abundant here and elsewhere in Massanutten
but mainly on dry shales.

5083 *Draba ramosissima* Desr. ditto
(14) well up slope on shale barrens ditto
abundant: some flowering still;
but mostly in seed: fl. white
found only on shale areas here. e

5084 *Auplexium platyneuron* (L.) Oakes. ditto
(1) on ledges at top (Clinton sand
stones and conglomerates) also
below on shales: abundant. e

5085 *Potentilla monspeliensis* L. ditto
(1) on shales at foot where
red bud colonies are
only plant seen: fl. yellow. e

5086 *Crataegus tomentosa* (L.) Muhl. ditto
Flowers stems, leaves, fruit pubescent. e
on shales near foot of slope proper.

5087 *Ruellia strepera* L. ditto
3 on route 730 from Valley Forge
near Short Mt. This by roadside at
week on way to Short Mt.: abundant,
full bloom: flowers large, showy, blue. e

5088 *Carex pennsylvanica* var. *enervis* Boott. ditto
(1) at ledges on Short Mt.: abundant. e
- see rocky talus begins
(Ident. by T. J. Hermann)

Deschampsia flexuosa (L.) Trin
at foot of cliffs at top: abundant here: in full bloom: not on shales below. at about 2400 ft
South end of Short Mt., Va. Massanutten range, Shenandoah Co. June 19, 1938 H.A. Allard.

5089 *Carex mullerbergii* or *enervis* Boott. ditto
(4) Growing with # 5089 abundant: alt. about 2400 ft (ident. by F. J. Hermann)

5091 *Bromus pinnatus* L.
(4) well up slope on shales near 1800 ft alt. abundant. ditto e

5092 Graminae - *Festuca obtusa* Shreng.
(1) well up on shales near # 5091: abundant. ditto
(6)

5093 *Blephilia ilicata* (L.) Raf.
(1) On shales well up slope near # 5091; abundant; in full bloom; very showy blue purple flowers in large clumps. ditto e
a typical shale plant here.

5094 *Brassica nigra* (L.) Koch.
(2) On route 730 off Great Valley of Va. The Valley Pike to Short Shenandoah Co. Mt., Va. south end. June 19, 1938 H.A. Allard
Roadside near stream # 4, Allard
in way; abundant; full bloom. ditto e
Tall 4-5 ft.

5095 *Cirsium palustre* *Carduus acanthoides* L.
(6) Near roadstock, by roadside. ditto abundant here; just opening its flowers; only a few plants with blower heads; pink purple; my first record.

Cirsium pinnatum (Nutt.) Shreng.
South end of Short Mt., Va. Massanutten range, Shenandoah Co. June 19, 1938 H.A. Allard.
on route 730 leading east from valley Pike just south of Mt. Jackson. Big roadside in woods near short Mt. south end. just in bloom; fragrant; fl. purple.

5097 *Aralia hispida* Vent. ditto
(4) On top of cliffs of Short Mt., abundant here; in full bloom. some plants 54 inches tall.

5098 *Galium latifolium* Michx.
(2) On top of cliffs at 2600 ft. ditto e
Leaves dotted, but stems smooth, whereas *G. pilosum* has dotted leaves, hairy stems. abundant; just in bloom; fl. purple.

5099 *Deschampsia flexuosa* (L.) Trin
(2) On top of cliffs near # 5098: ditto
full flower; spikelets pinkish tan, the usual color of this very beautiful, e
terrace, delicate species at 2600 ft.

5100 *Panicum boscii* var. *molle* (Vasey) H. & C.
(4) ditto
var. *molle*? at foot of cliffs at 2400 ft with # 5089
stems hairy. abundant here.

5101 *Pentstemon canescens* Small e ditto
(1) at top of cliffs near # 5097
full flower; abundant also on shales below.

5102 *Cercis canadensis* L.
(3) On shales on lower slope. ditto
Abundant here on shales; some with distinct red pods; others with green; and not a matter of age.

*Crataegus tomentosa*² Smith end of Short Mt., Va
on shales near Massanutten Range
5103 foot of main slope, Shenandoah Co.,
(21) scattered here. June 19, 1938
H.A. Allard

5104 *Galium pilosum*
(21) var. *pusillum* *circarens* Michx. ditto
puncticulatum
fl. white, stems glabrous, edge of leaves ciliate,
fruit mucinate-hispid; leaves not dotted,
hairs as in *pilosum*.
5105 On top of diff. at 2500 ft. full bloom.
(81) *Silene linearis* Michx.

On county road #730, low, wet Great Valley of Va
roadside shot in woods approaching Shenandoah Co
south end of Short Mt., June 19, 1938
abundant here. H.A. Allard.

5106 *Scrophularia leprella* Bicknell
(11) Top of Short mountain - south end
on high crest of ledges at 2600 ft.
full bloom here: on shales at foot
of slope past bloom

5107 *Asclepias purpurascens* L.
(11) Growing by roadside in woods
near # 5105 in drier soil: full bloom. ditto

5108 *Asclepias tuberosa* L.
(21) By roadside on # 730 leading off ditto
from the Valley Pike on the way to
south end of Short Mt., Va: abundant;
5109 full bloom now.

Allium ampeloprasum L.² Park town
First found by Dr. S. F. Blake
There then collected by Howard T. Allard
June 19, 1938 who visited this area: abundant
here; full bloom a week earlier; very showy;
purple heads of flowers; numerous basal bulbils.

Phlox pratensis L. Bull Run Mt., Va
at Riley's spring Franquier Co.
5110 at their old at Hartsell Gap.
cabin house. June 26, 1938
(21) Full bloom H.A. Allard
abundant.

5111 *Chrysanthemum* *leucanthemum* L. ditto
(14) var. *pinnatifidum* var. *pinnatifidum*
Very abundant in Castello's field
near stone crusher stood. full bloom

5112 *Rudbeckia hirta* L. ditto
(13) Growing in same field with
5111; full bloom; very abundant
yellowing this field in places.

5113 *Juncus*
(11) On thin soil at top of
ridge at Castello's quarry ditto
above his spring.

5114 *Dryopteris polypodioides* L. ditto
(21) In woods beyond high
Purdon sedge field od oak tree
Quercus saubii
- *Dryopteris hexagonifera* (Michx.) C. Chr.

5115 *Poa compressa* L.
(11) In high brown sedge field on ditto
slope beyond Riley's former cabin
house (S.W.) abundant in thin
scattered stands.

5116 *Hyssopus* L. ditto
(11) Covera rocks od boulders in
little cold pools leading from spring
in woods below High Point (see photo)
Temperature of water = 56° F.

Polystichum acrostichoides Bull. Run Mt., Va.
var. *schweinitzii* (Miche) Tangner Co.
5117 In woods below High Point, west slope of cold spring with # 5116. June 26, 1938 H.A. Allard. ditto

5118 *Polystichum acrostichoides* (Miche) Schott ditto
(2) Growing near # 5117 very abundant. ditto

5119 Moss on big boulders covering them with a solid mat in brook from spring base # 5116 near. abundant: dull olive green. ditto

5120 *Nepeta cataracta* L. ditto
(4) at foot of Castello's flagstone quarry west of his house on ridge: full flower: very abundant here

5121 *Apoecynum cannabinum* L. ditto
(4) Growing on top of quarry where # 5120 grows: abundant here: full flower: (leaves mucronate-tipped)

5122 ~~*Apoecynum androsaemifolium*~~ ditto
(11) *Mothotropa uniflora* L. Rich woods just below High Point, west slope: full flower

5123 Moss on stones covering these with a bright, sunilluminant satiny greenness of pure moss. ditto


Mass on rocks covering these, near spring. Bull Run Mt., Va. Tangner Co. June 26, 1938 H.A. Allard.
5124 near # 5119 ditto

Chimaphila maculata (L.) Pursh. ditto
5125 Found near # 5124. (2) abundant: full flower: more abundant than *umbellata* ditto

5126 *Omerus saulii* Schneider. ditto
(5) In s.w. corner of high brown sedge field beyond Castello's a young, fine tree. white caps of chestnut valves of red around. = *alba* x *montana* (brunus)

5127 *Apocynum peltoides* (L.) Ehrh. on sand dunes
(2) *Humboldtia* on dunes: abundant: at Provincetown, Cape Cod, Mass. July 1, 1938 H.A. Allard
no flowers, there being rarely produced. (E. n. p. introduced)

5128 *Lathyrus maritimus* (L.) Bigel. ditto
(5) on sand dunes: full flower: abundant: fl. purple.

5129  ditto
(1) on dunes near # 5128. Not in flower: abundant.
= *Antrostaphylos uva-ursi* Spreng.

5130 *Linaria canadensis* (L.) Dumort. ditto
(1) abundant on sand dunes etc: full flower. (fl. purple)

Rufus hispidus A
On sand dunes;
5131 abundant; full
(2) bloom.
Provincetown, Cape
Cod, Mass.
July 1, 1938.

5132 *Calopogon pulchellus*
(1) Low, dwarf spat on
Cape Cod sands at Provincetown,
abundant; full bloom.
ditto
- *Limnolobos tuberosus* L.

5133 *Aralia hispida* Vent.
(2) abundant on dunes at
Provincetown; also everywhere by
roadsides in Maine. Quebec etc: full
bloom. See # 5097
ditto

5134 *Artemisia stelleriana* Bess
(1) abundant on dunes etc: passing.
escape from gardens (Asia)
ditto

5135 Gramineae
(2) In bog: abundant.
On shore of
Malden Pond,
Concord, Mass.
July 1, 1938
Cladonia canadensis (Michx.) Trin.
H.A. Allard, e

5136 *Carex lasiocarpa* Wahl
(2) Growing with # 5135
ditto
Ident. by T. J. Hermann, Assoc. Botanist, Dir.
of Plant Exploration and Introduction July 30, 1938.

5137 *Hieracium aurantiacum* L.
(4) In fields, roadsides
July 3, 1938
Maine
H.A. Allard
etc: in frequency: deep orange
(orange fl.) Very showy.
everywhere in north, Canada, Yukon, Alaska
Barre, Mt. Wash. etc: full
bloom

Hieracium patense Tausch, Desert Isle, Maine.
abundant and intermingling July 3, 1938.
with # 5137: somewhat
taller: less stoloniferous
5138 roadside.
H.A. Allard
bl: deep yellow.

(4) Less wide spread than # 5137, but
abundant in southern Maine: full
bloom.

5139 Mt. Desert Isle; old
(1) field: full bloom.
abundant.
3 *Pinnanthus crista-galli* L.
ditto

5140 Gramineae
(3) abundant in Central
Maine in places by
roadside: spikes purple: showy
Calamagrostis canadensis (Michx.) Beauv.
Mathamamkeag,
Penobscot Co., Maine.
H.A. Allard
July 3, 1938.

5141 *Juniperus trifida* L.
(2) Near top: above timber
line: abundant on knife edge.
(Ident. by Hermann)
Mt. Katahdin,
Maine
July 4, 1938
H.A. Allard.

5142 *Diapensia lapponica* L.
(1) Near top: above timber
line: abundant: dense clusters
clustered: fl single: 3 parted below calyx.
Near top ditto

5143 *Vaccinium vitis-idea* L.
(1) var minus Lodd.
abundant: full bloom above timber line.
corolla deep pink.
ditto

5144 *Ledum gwenlandicum* Gled.
(2) bl. white: a very showy
shrub above timber line: full
bloom: enduring.
ditto

Vaccinium uliginosum L. Top of Mt. Katahdin,
Maine, above
timber line.
5145 In bloom; abundant
low shrub here

5146 Gramineae. ditto
" silvery brown plants and large.
above timber line; abundant
Hieroblyce alpina (Swartz) Boem. pschuel.

5147 *Carex concolor* R. Br. ditto
" High up 1st peak of Katahdin
on trail from Baxter Camp; abundant
above timber line. (Ident. by Hermann)

5148 *Carex humilis* (Pers.) Poir. ditto
" Growing above timber line.
(Ident. by Hermann)

5149 *Arenaria groenlandica* (Petry) Steud. ditto
" above timber line on bleak
slopes; abundant; full bloom
fl: white.

5150 *Linnaea borealis* americana Forst. ditto
" High up Katahdin on
plateau; full bloom. grass
around Camp Baxter also red
on low slopes around.

5151 *Linnaea borealis* ditto
" very showy, delicate, pinkish
very fragrant flowers.
on plateau high up trail above
timber line; abundant below
High up Katahdin above timber line,
(Ident. by Hermann)

Cladonia squamosa (Scop.) Hoffm. on Mt. Katahdin,
Maine.
July 5, 1938
H.A. Allard.
5152 On rocks in
ravine at falls
above Camp Baxter
on Baxter camp trail.

5153 Lichens ditto
" on rocks near # 5152

5154 Lichens - *Cladonia squamosa* (Scop.) Hoffm. ditto
" Near # 5152 on stumps,
logs etc. 5154b = *C. cristatella* f. *vestita* Tuck.
5154A = *C. squamosa* (Scop.) Hoffm. 5154C = *C. squamosa* (Scop.) Hoffm.

5155 *Cladonia* mixed ditto
" one = *C. rangiferina*
one a brown, long, pointed type
Near # 5154 = *C. gracilis* var. *elongata*
f. *squamosa*
5155A = *C. rangiferina* (L.) Web.

5156 *Cladonia* - *C. gracilis* var. *elongata* ditto
" as # 5155 f. *squamosa*

5156a In same locality
C. rangiferina (L.) Web.

5157 Lichens - *Cladonia squamosa* (Scop.) Hoffm. ditto
" Near # 5152;
on soil on banks.

5158 *Cladonia alpestris* (L.) Rabenh. ditto
" on soil on rocks near
falls above Camp Baxter.
abundant; forms a knobby covering
very pretty; gray.

Cladonia *C. gracilis* var. *dilitata* (Hoffm.) Vain.
5159e = 5159b. *C. squamulosa* (Schaer.) Sacc. on Camp Baxter Trail
July 5, 1938
5159 at bridge at falls 5159c
near Camp Baxter 5159d = 5159b, and *C. coniocraea* f. *ceratodes*
" 5159a same as 5159
5159b = *C. gracilis* var. *dilitata* (Hoffm.) Vain.
(and *C. coniocraea* f. *ceratodes* (Hoffm.) Vain.)

5160 *Lyofodius clavatum* L. ditto

" Growing near # 5159
5159h = *C. squamulosa* (Sacc.) Hoffm. and *C. coniocraea* f. *ceratodes*
and *C. gracilis* var. *dilitata* (Hoffm.) Vain.
5159j = 5159k = *C. coniocraea* f. *ceratodes* (Hoffm.) Vain.
5159l = *Jamesoniella autumnalis* (Dill.) Stehr
5161 *Lyofodius annulatum* L. ditto

" Near # 5159

5162 *Linnaea borealis* americana Forbes.

" Thin flower. full bloom: very fragrant; ditto
pink.

Three found at Mud Pond below camp Baxter.
Very abundant at all elevations: to near top
of Katahdin.

5163

" *Cerastium*? *abundant* *graminea* (L.) Britton ditto

Growing on shore of Mud Pond below
Camp Baxter: full bloom. e

5164

" *Arnica mollis* var. *petiolaris* Fernald ditto
(Arnica)
yellow flowered Composite

In damp boggy ground in thicket at
Mud Pond: full bloom

5165

" *Oxalis acetosella* L. ditto

" At Camp Baxter at foot of
Mt. Katahdin: abundant: full bloom: c
fl. white.

5166c = *C. gracilis* var. *dilitata* (Hoffm.) Vain.
5166d = undeterminable,

5166e = " "

5167 = *Ptilidium ciliare* (L.) Nees. L.)

5167a = " "

5167b = sterile - doubtful. Some sent to Berry, C. 2

5167c, *Cladonia rangiferina* (L.) Web.

5167d. " "

5167e. " "

5168 *Ptilidium ciliare* (L.) Nees.

5168a *Bazzania ciliata* (L.) Nees.

5168b. " "

5168c. " "

5168d. " "

5168e *Cladonia rangiferina* (L.) Web.

5168f. " "

5168g. " "

5168h. " "

5168i. " "

5168j. *Ptilidium ciliare* (L.) Nees.

5168k. *Bazzania trilobata* (L.) S. F. Gray

+ *Oethocaulis attenuatus* (L.) Auth.?

5168l. *Bazzania trilobata* (L.) S. F. Gray.

+ *Ptilidium ciliare* (L.) Nees.

5168N and 5168O = same as 5168L.

Clad - C. gracilis var. dilatata. Mt. Katahdin Maine

51592 =

51

11

(and

51

11

515

5159

51

11

51

2

51

11

51

12

516

11

117

59 f. = C. rangiferina (L.) Web. Mt. Katahdin, Maine,
Cladonia July 5, 1938,
H.G. Allard

5166

11

on rocks at very top near
mossy plaque. Sphaerophorus fragilis (L.) Pers.

66a =

Termonema setiforme (Ehrh.) M.A. Howe

Mistle or Bluffarctostoma setiformis (Ehrh.)
= Synon. ditto

5167

Cladonia

he) Van.
11

Cetraria islandica

Moss
all from rocks at top near # 5166
at 5266 ft

5168

11

Mistle
Mosses
Lichens From cliffs at
Hepatic folk above Camp
Booster.

ditto

5169

11

Hepatic = Diplophyllum tapifolium (Vahlent.)
Mosses From cliffs near # 5168
Dunn.

5169a = Bogzania trilobata (L.) S.F. Gray.

5170

11

Mosses Diplophyllum tapifolium (Vahlent.) Dunn
Lichens 5170c = Cladonia rangiferina (L.) Web.
Hepatic 5170d = Sphaerolobus minutus (L.) S.F. Gray.
with # 5168 + Bogzania trilobata (L.) S.F. Gray.

5171

11

Mosses etc.
Growing near # 5168

ditto

5172

11

Bogzania trilobata (L.) S.F. Gray ditto
Mosses
Hepatic
Growing with # 5168.

Phlegopteris polypodioides on Mt. Katahdin, Maine
Camp Baxter trail,
July 5, 1938
H.A. Allard.

5173 at falls above
Camp Baxter.

" = Dryopteris phlegopteris (L.) C. Chr.

5174 Bryum?
" Growing with # 5173

5175 Bayzania trilobata (L.) S.F. Gray.

" Growing at falls above
Camp Baxter.

Mosses
Hepaticas

5176

(5) Senecio robbinsii Oakes.

In damp boggy soil in Thicket
at Mud Pond, below Camp Baxter.
Occasional: full bloom.

5177

" Carex peckii E.C. Howe.

" Growing with # 5176
(Ident. by Hermann.)

5178

" Silene latifolia (Mill.) Britton
at Camp Baxter. Beautifully veined calyx.
- S. cucubalus Wibel.

5179

" Carex humilis (Pers.) Poir.

" On cliff shelf at falls
above Camp Baxter.
(Ident. by Hermann.)

Gramineae.

Mt. Katahdin, Maine,
July 5, 1938
H.A. Allard

5180

" at Camp Baxter
in woods.

Danthonia spicata (L.) Beauv.

5181

Carex crandfordii Fern.

" Growing at Mud Pond below
Camp Baxter
(Ident. by Hermann.)

5182

Carex crandfordii Fern.

" Growing near # 5181
(Ident. by Hermann.)

5183

Carex scabrata Schreb.

" with # 5181
(Ident. by Hermann.)

5184

Carex crandfordii Fern.

" at Mud Pond below
Camp Baxter
(Ident. by Hermann.)

5185

~~Cyperus~~ ^{Saxifraga} atrocinctus Fern.

" Near # 5184
(Ident. by Hermann.)

5186

Carex scabrata Schreb.

" Near # 5184.
(Ident. by Hermann.)

Carex gynandra Schum. Mt. Katahdin, Maine,
at Mud Pond July 5, 1938
5187 below Camp Baxter. H.A. Allard.
" (Ident. by Hermann)

5188 *Carex projecta* Mack. ditto
" with # 5187
" (Ident. by Hermann)

5189 *Saxifraga atrorubra* Fern. ditto
" Growing with # 5187
" (Ident. by Hermann)

5190 *Chrysothrix hirsuta* (L.) T. P. G. ditto
" At Mud Pond -
" on soil in woods -
" prostrate - small leaves
" (alternate) Not size

5191 *Thick, grayish green* abundant. ditto
" Mosses
" Hepaticae
" Lichens
" at cliffs at falls above Camp Baxter.

5192 *Solidago cutleri* Fernald ditto
" at highest point on Mt. Katahdin,
" Maine at 5200 ft. alt.
" just coming into flower
" above timber line.

5193 *Arenaria groenlandica* (Rat.) Spreng. ditto
" Everywhere above timber line at
" top of Mt. full bloom; dense clusters.
" fl. whitish; completely covers the ground
" with flowers in places; leaves linear

5191 = *Bryozoa trilobata* (L.) S. F. Gray.
5191a = *Ptilidium ciliare* (L.) Nees.
5191b = " " "
5191c = *Cladonia sylvatica* (L.) Hoffm. (slender form)
5191d = " " "
5202 = " *gracilis* var. *elongata* (Jacq.) E. Fries.
5202b = *Ptilidium ciliare* (L.) Nees.
5203b = *Cladonia amaro-craea* f. *oxyclada* Vain.
" and f. *fuscatiformis* Vain.
5204 = " *gracilis* var. *elongata* (Jacq.) Fries.
5204a = *Tremnoma setiforme* (Ehrh.) M.A. Howe (mostly)
5204b = " plus *Cladonia squamosa* (Scop.) Hoffm.
5204c = (Too little to test.)
5204d = *Ptilidium ciliare* (L.) Nees.
5210a = *Cladonia amaro-craea* (Flörke) Schaer
5210b = *Tremnoma setiforme* (Ehrh.) M.A. Howe.
5210d = *Cladonia uncialis* (L.) Web.
5210e = " *squamosa* (Scop.) Hoffm.
5211a = " *rangiferina* (L.) Web.
5211b = " *amaro-craea* (Flörke) Schaer.
5211c = { " *alpestris* (L.) Rabenh. (right),
" *rangiferina* (L.) Web. (left).
5211d = " *alpestris* (L.) Rabenh.

Carex

5187

//

5188

//

5189

//

5190

//

5191

//

5192

//

5193

//

Tuf
fl. wh.
with blue

Vaccinium

uliginosum L.

5194

//

Top of Mt. Katahdin,
Maine, at 5286 ft
July 6, 1938
H.G. Allard.

5195

//

Salix phylicifolia Pursh
at top among rocks
above timber line
low.

ditto

5196

//

Near # 5195

Ericaceae
shrub. Vitis idaea var. opifera L.

ditto

5197

//

Ericaceae

Near # 5195

= Vaccinium uliginosum L.

ditto

5198

//

Lycopodium selago L.

Near # 5195

ditto

5199

//

Carex concinna R. Br.

with # 5195

(ident. by Hermann)

ditto

5200

//

Cetraria islandica

with 5195 - abundant.

5200a = Cladonia rangiferina (L.) Reb.

ditto

Cladonia²

Top of Mt. Katahdin, Maine

July 6, 1938

H.A. Allard

at 5266 ft

5201

on rocks etc

at extreme top

(1)

above timber line.

= Cladonia amaro-craca (Floerke) Schaer
f. oxyclada Vain.

5202

Cladonia

(1)

Moss

with # 5201

ditto

5203

Lichens.

(1)

One yellowish green - foliose -
very pretty

Near # 5201

ditto

5204

Mosses

(1)

Lichens

Near # 5201

ditto

5205

Cetraria islandica

(1)

Near # 5201

ditto

5205a = Cladonia abundant

5206

Cladonia rangiferina (L.) Web.

(1)

Near # 5201

ditto

5207

Cetraria islandica (L.) Ach.

(1)

Near # 5201

5207a = Cladonia rangiferina (L.) Web.

5207b = " amaro-craca (Floerke) Schaer.

ditto

Cladonia rangiferina (L.) Web.

July 6, 1938

H.A. Allard

5208

on soil at
very top above timber line.
abundant everywhere. e

5209

Cladonia rangiferina (L.) Web.

(1)

mostly

5209b = Cladonia amaro-craca (Floerke) Schaer.
5209c = Ptilidium ciliare (L.) Nees.

ditto

5210

Moss

(1)

Lichen like # 5203

5211

Mostly Cetraria islandica (L.) Ach.

(1)

some Cladonia rangiferina

"

"

alpestris.

e

(intermingled)

5212

Gramineae

(1)

Poa lapa Macarke

in rock crevices.

ditto

5213

Vaccinium vitis-idea

(1)

var. minus Lodd.

(Mt. Cranberry); fl. deep pink.

in full bloom at top.

Low shrub.

e

5214

Carex brunneocens (Pers.) Poir.

(1)

near 5213. (ident. by Hermann)

ditto

Carex brunneescens (Pers.) Tof of Mt. Katahdin Maine,
or July 6, 1938

5215 on turf at
Cairn and
honey plaque etc. Ident by Hermann
e

5216 sphagnum
at Goss's Spring on
plateau just below top in
boggy ground.

5217 *Carex cranfordii* Ternald Mt. Katahdin, Maine
also *Juncus macer* at Camp Baxter at foot.
S.F. Gray July 8, 1938
at camp site (Ident by Hermann) H.A. Allard
e

5218 *Carex intrumescens* Rudge,
or *Arnoldii* Bailey ditto
at camp site (Ident by Hermann) e

5219 *Poa polystris* L
Gramineae ditto
at camp site e

5220 Gramineae *Agrostis tenuis* Sibth. ditto
at camp site
fine purple panicles, soft, lax, showy.

5221 *Galium-strictum* L. Moose head Lake, Maine
bl white.
July 8, 1938
(By roadside near Greenville Maine.) H.A. Allard e

Campanula rotundifolia L Wyanam Dam, Maine

5222 an grassy bank of dam
earth mounds.
very beautiful, deep blue, showy;
fully bloom
var. *intercedens* (Writasek) Farar e

5223 *Matricaria sarracensis*
matricarioides (Less.) Porter. ditto
Near # 5222.
(rayless)
Lost or left my fine digging tool

5224 *Aster macrophyllus* L Mt. Washington
Purpham Notch,
July 11, 1938
at Dolly Co. campsite H.A. Allard.
(abundant; just coming into bloom) e
dark blue.

5225 *Juncus greenei* Oakes et Tuckerm. ditto
at camp site (Ident by Hermann) e

5226 *Hieracium aurantiacum* L July 11, 1938
at Nanton Lake, N.H.
My roadside.

5227 *Cladonia pleurota* (L.) Schaer.
very abundant weed in all fields; full
bloom

5227 *Cladonia pleurota* (L.) Schaer.
Mt. Washington N.H.
In Truckerman's Ravine. July 13,
(on soil) H.A. Allard 1938

5228 *Cladonia squamosa* (Wulf.) Hoffm. ditto
with # 5227 " " " "

Hierochloa odorata (L.) B. & H. M.T. Washington, N.H.
Tuckerman's Ravine,
Pinkham Notch trail
July 13, 1938.
H.G. Allard.
5229 In Tuckerman's
Ravine on slopes.
" A very beautiful grass. e

5230 *Juncus trifidus* L ditto
" Near # 5229 e
(Ident by Hermann)

5231 *Deschampsia flexuosa* (L.) Trin. ditto
" Gramineae. e
with # 5229
very pretty delicate panicles.

5232 *Carex brunneus* (Pers.) Poir. (shade form) ditto
" Near # 5229 e
(Ident. by Mr. Hermann)

5233 *Arenaria groenlandica* (Retz.) Shreb. ditto
" In Ravine on slopes
very abundant: full bloom; showy. e

5234 *Carex concolor* R. Br. ditto
" In ravine. (Ident by Hermann) e

5235 *Epipactis perfoliata* Pursh. ditto
" *Potentilla*
Very showy: full bloom
on ledges: abundant.
appearance of a buttercup. e

Dracopis mollis Hook. M.T. Washington, N.H.
Tuckerman's Ravine.
on ledges etc. July 13, 1938
H.G. Allard.
5236 full bloom: showy. Not abundant: in clumps. e
" (4)

5237 *Carex brunneus* (Pers.) Poir. ditto
" In ravine Ident by Hermann. e

5238 Gramineae ditto
" In ravine e
Poa pratensis L

5239 *Phleum alpinum* L. ditto
" In ravine. e
full bloom.

5240 *Carex brunneus* (Pers.) Poir. ditto
" In ravine (Ident. by Hermann)

5241 *Luzula parviflora* (Ehrh.) Desv. ditto
" *Cyperus* var. *melanocarpus* (Michx.) Benth.
above Tuckerman's Ravine. e
(Ident. by Hermann)

5242 *Carex leptomeris* Fern. ditto
" Above Tuckerman's Ravine.
(Ident. by Hermann)

Carex canescens L.
var. *disjuncta* Fern.
5243 Above Tuckerman's Ravine. July 13, 1938
(Ident. by Hermann)
Mt. Washington, N.H.
Tuckerman's Ravine
trail. H.A. Allard

5244 *Arenaria groenlandica* (Retz.) Sp. *ditto*
// In Tuckerman's Ravine. *menq.*

5245 *Juncus trifidus* L. *ditto*
// In Tuckerman's Ravine
(Ident. by Hermann)


5246 Gramineae *ditto*
// In Tuckerman's Ravine
Deschampsia flexuosa (L.) Trin.

5247 *Saxifraga chlorocarpa* *ditto*
// In Tuckerman's Ravine
Saxifraga caespitosa L. var. *callosa* Bigel.
(Ident. by Hermann)

5248 *Carex humilis* (Pers.) Poir. *ditto*
// In Tuckerman's Ravine

5249 *Rhinanthus oblongifolius* *ditto*
// *Castilleja septentrionalis* Lindl.
yellowish green flowers;
narrow leaves; not showy.

Epilobium alpinum L. Mt. Washington, N.H.
5250 On Tuckerman's Ravine trail
July 13, 1938
H.A. Allard.

(2) small lilac flowers;
long slender pods;
leaves opposite, nearly entire 
fl. small

5251 *Rubus triflorus* Richards. *ditto*
// Trailing: In Tuckerman's ravine.

5252 *Veronica alpina* L. *ditto*
// var. *malaschensis* C.P.S.
- *V. romscholdii* R.P.S.

5253 Orchidaceae *ditto*
(2) High up side of Tuckerman's
Ravine: fl. white: full bloom
Habenaria dilatata (Pursh) Gray

5254 Gramineae *ditto*
// At Tuf. among rocks near
Summit House
Poa glauca Vahl.

5255 Lichen *ditto*
// near # 5254
among rocks.

5256 *Carex canescens* L. var. *disjuncta* Fern. *ditto*
// Shore of Hermit Lake
about 3800 ft. (Ident. by Hermann)

Gramineae.

Mt. Washington, N.H.

Trickerman's Ravine.

July 13, 1938.

H.A. Allard

5257

Trickerman's
In ravine

Calamagrostis canadensis (Michx.) Beauv.

5258

Carex lunifolia (Pers.) Poir. ditto

In Trickerman's Ravine

5259

Carex paupercula Michx.

very abundant on shore of
Hermit Lake at 3800 ft +.

(Ident. by Hermann)

5260

Gramineae - Calamagrostis canadensis (Michx.) Beauv.

with # 5259

5261

Carex paupercula Michx.

at Hermit Lake in wet bog
very beautiful with bright green perigynia
and brown scales, contrasting
spikes drooping (Ident. by Hermann)

5262

Juncus filiformis L.

at Hermit Lake.

(Ident. by Hermann)

5263

Cyperus atrovirens Fern.

on shore of Hermit Lake.

(Ident. by Hermann)

Eleocharis

In ravine

5264

Dense tufts
stems very

Scirpus caespitosus L. var. callosus Bigelow.

(Ident. by Dr. Hermann)

5265

Houstonia caerulea Sterens
var. ~~toponorum~~ ~~peruviana~~ ditto

11

In Trickerman's ravine:
very abundant; full bloom:
corolla pure white in dense
clusters

5266

Cladonia

Cannon Ball Mt.

11

On top at 4100 ft. Hermit on aerial
tram at east of 95 cents, high over
forests of fir mostly; very drooped at
top July 15, 1938

5267

5266a = Cladonia squamosa (Tuckerm.) Schaer.

11

Polygonum persicaria

around quarry dam, soil above
Castello's house at Haverell Gap. July 24, 1938

5268

Persicaria mitis Gilb.

11

Oxalis europaea forma cymosa (Small.) Neg.
Near # 5267
abundant; full bloom

5269

Galium triflorum Michx.

11

Thicket at Castello's quarry above.
abundant; full bloom

5270

Chiraphidum vulgare L.

11

abundant; full bloom
with # 5269; fl. rose pink.
common in thickets.

Pyrenanthemum incanum
In thickets at Castello's
quarry above his house:
5271 abundant: full bloom
" *Roellia pyrenanthemoides* (Leavenw.) Knutze
Bull Run Mt., Va
Hopewell Gap.
July 24, 1938
H.A. Allard
Fauquier Co

5272 *Solanum carolinense* L. ditto
" at above quarry: abundant: full bloom

5273 *Amelanchier canadensis* (L.) B.S.P. ditto
" same locality with # 5271
abundant: full bloom

5274 *Galium circaezans* Michx. ditto
" same locality with # 5271
abundant in woods: passing

5275 *Acalypha virginica* var. *pauciflora* A. Gray. ditto
" at above quarry: a common weed;
often red throughout in autumn

5276 *Geranium canadense* Jacq. ditto
" at above quarry: abundant

5277 *Oxalis europaea* forma *aperta* (Small) Wieg. ditto
" at above quarry:
abundant: full bloom

Amelanchier canadensis (L.) B.S.P. Bull Run Mt., Va
Hopewell Gap.
July 24, 1938
H.A. Allard
Fauquier Co
5278 abundant in woods etc.

5279 *Sanicula canadensis* L. ditto
" Near # 5278.
abundant in woods etc.

5280 *Polygonum hydropiper* (L.) Oriz. ditto
" Same spot near # 5278.
abundant: full bloom
leaf; drooping racemes, whitish: achenes dull.

5281 *Setaria lutescens* (Weig.) Hubb. ditto
" at above quarry: on
abundant grass now.

5282 ditto
" Large serrate, ovate leaves.
inflorescence umbellate.
In thicket at above quarry.
Aralia racemosa L.

5283 *Bidens bipinnata* L. ditto
" at above quarry: abundant:
full bloom on ledges in open etc.

5284 *Meibomia nudiflora* DC. ditto
" *Desmodium*
woods: near slope below High Point.
Very abundant in woods: full bloom: a
conspicuous feature of understory with Hog Peanuts.

sericocarpus asteroides (L.) Bull. Rm Mt., Va
woods next slope below
High Point. July 24, 1938

5285 abundant: full bloom H.G. Allard
Fauquier Co.)

e

5286 *Monotropa hypopitys* ditto
near # 5285 *hypopitys lanuginosa* (Michx.) Nutt.
full bloom.

e

5287 *umbelliferae anglica villosa* (Walt.) B.S.P.
31 open woods growing up from
clearing, next slope below High Point.
smooth: fl. white like wild carrot: tall.

ditto

e

5288 *Crotalaria sagittalis* L ditto
old brown sedge field near
Hofenell - Broad Run Station highway
abundant in some dry areas: lam.
hanging.

e

5289 *Hypericium denticulatum* ditto
in old field near where *Prunus rigida*
forma *globosa* grows.
full bloom: abundant.

e

5290 *Prunella vulgaris* L ditto
last year in wheat: very abundant
now: full bloom. abundant in
deciduous woods, cast roads etc.

e

5291 *Daucus carota* L ditto
with red flowers: occasionally
seen in white fields, in field
with # 5290.

e

Rudbeckia hirta L Bull Rm Mt., Va
July 24, 1938
in field at Hofenell Gap H.G. Allard
near *Prunus rigida* Fauquier Co.

5292 forma *globosa*: very
abundant in old fields: full bloom

e

5293 *Lactuca canadensis* L ditto
old field near # 5292.
abundant: full bloom

e

5294 *Paspalum pubescens* Muhl. ditto
in old field near # 5292

e

5295 *Panicum shaeocarpon* Ell. ditto
near # 5292

e

5296 *Oxalis corniculata* L ditto
with # 5292
fl. yellow: abundant in old brown sedge
field here.

e

5297 *Polygala verticillata* L ditto
in same old field with # 5292:
full bloom

e

5298 *Pastinaca sativa* L. ditto
Edge of thickets in old field
just beyond Castellon: large colony
here: full bloom: fl. yellow.

e

Cornus stolonifera Mill. Bull Run Mt., Va
in fence run thick
below Castello's. Haperell Gap,
July 24, 1938
H.A. Allard.

5299

(1)

Franklin Co

5300 *Saxifraga variifolia* Runtze ditto
(2) Near # 5299: Tree largest in
Bull Run Mt., is 8 ft in circumference at
heart height. Very beautiful, shapely tree.

5301 *Plantago aristata* Michx.

(2) abundant in patch way made by
trunks travelling to a road led in dense
honeycomb pasture near old Riley cabin. Here
did not extend on either side of tracks but
leaves had killed sedge, but very abundant here.

5302

(5) *Mentha spicata* L.

In wet spot by brook below Castello's
field here stone crusher was situated -
lane leading to Riley's old cabin: full bloom

5303 *Carex lucida* Wahl.

(1)

In same wet spot with # 5302
(Ident. by F. J. Hermann)

5304 *Aporosa cannabinum* L.

(3) Old pasture (honeycomb) beyond
Castello's at Haperell Gap.
abundant: full bloom

5305 *Oenothera biennis* L.

(2) Old field here small cedars
are abundant beyond Castello's, near
lane *Pinus rigida* in field.
Very abundant: full bloom.

Sida spinosa L.

Bull Run Mt., Va

July 24, 1938

Haperell Gap.

Franklin Co

5306

In old honeycomb
(2) pasture where many
small cedars grow far beyond Castello's
near ravine old barbs from Riley's
old cabin

5307 *Chorodrilla juncea* L.

(5)

Growing in waste land in
pasture below Castello's near # 5299.
My first record for Bull Run Mts.
full bloom: one or two plants only.
fl. yellow.

5308 *Sabatia solidago juncea* Ait.

(3) In old honeycomb field near
5306: scattered: just coming
well into bloom

5309 *Sabatia juncea angularis* (L.) P.

(2) In old honeycomb field where
Pinus rigida var *globosa* grows.
abundant here: full bloom: very deep rose,
pink, shiny: very fragrant: buds here white till
transition of corolla.

5310 *Aurates viridiflora* (Raf.) Elton

(2) In old field with # 5309: scattered
on the high honeycomb field it: general:
full bloom

5311 *Pyrola asarifolia* (L.) Kuntze.

(2) In old field beyond Castello's -
long in honeycomb woods, wet slope
below High Point - deciduous:
common in old honeycomb fields.

5312 *Arabis racemosa* L.

(1) In thicket at Castello's quarry:
full bloom.

~~These haphazardly~~ Bull Run Mt., Va
Hedera ~~pubescens~~ (L.) Pers. Hoperell Gap,
in thickets and July 24, 1938
5313 Castilleja grandiflora: H.A. Allard
(2) very abundant; full bloom. Franquiere Co.
Under of pennyroyal, strong.

5314 Girardinia pumilum (Walt.) Shreve. ditto
(3) In old field beyond Castellaz near
old rail yard (1937) wheat field now
weeded with wild carrot.
passing bloom: scattered.

5315 Collinsia canadensis L. Bull Run Mt., Va
(1) In damp rich woods where July 31, 1938
we crossed from High Point trail H.A. Allard
to ridge Castellaz quarry is on Hoperell Gap and
locally abundant - 3 ft: just coming west slope
into bluffs here. Franquiere Co.

5316 Panicum wheeleri Pers. ditto
(4) On top of High Point cliffs in thin
soil in exposed places: abundant.

5317 Carex vinosa Muhl. ditto
(2) In woods near foot of High Point cliffs
west slope: only specimens seen: few
caricatures at this season.
Ident. by F. J. Hermann
Aug. 3, 1938.

5318 Agrostis rostellata Walt. ditto
(2) In rocky woods just below
High Point, west slope: scattered:
full bloom.
(fl. yellow)

5319 Boehmeria cylindrica (L.) Sw. ditto
(3) In swampy, wet woods below
High Point, west slope: abundant:
full bloom.

Hesperaria clausellata (Michx.) Bull Run Mt., Va
In moss and Franquiere Co
July 31, 1938
5320 sphagnum in H.A. Allard
swampy woods by near Hoperell Gap and
(1) spring below High Point, west slope below
west slope: full bloom; local; not abundant.

5321 Lactuca canadensis L. ditto
(2) Old field, damp soil just west of
Hoperell to Broad Run Sta. highway
nearly opposite High Point: abundant;
full bloom.
(fl. yellow)

5322 Salix sericea Marsh ditto
(4) Along brook in wet ground
which flows from Big Black walnut tree
across Hoperell to Broad Run station
highway - nearly opposite High Point.

5323 Lonicera sibirica silky beneath. ditto
(4) Scleria paniculata Muhl
In old pasture near # 5322
abundant here

5324 Cyperus ovularis (Michx.) Torr. ditto
(3) Growing with # 5323
scattered here. (Ident. by F. J. Hermann)

5325 Pyrananthemum pleurocarpum (Walt.) B.S. ditto
(3) Old pasture near # 5323.
abundant here: full bloom.

5326 Sabatia angularis (L.) Pursh. ditto
(1) Old brookside field across from
High Point and just west of Hoperell to Broad Run
station highway.
(near # 5323) full bloom: showy;
locally abundant: very fragrant.

Hemicallis aniceps Michx. Bull Run Mt., Va
Gramineae. Fannin Co.
In old pasture damp soil July 31, 1938
near old cabin across H.A. Allard.
Hoferville to Broad Run Station highway;
abundant; forms large patches, including other species.
full bloom.

5327 *Morinda fistulosa* L. ditto
(8) In damp spot across same
road way above - old near
5327. Large colonies here: full bloom.

5329 *Asclepias purpurascens* L. ditto
(3) In small across Hoferville to
Broad Run Station highway near old
black walnut tree: full bloom
common.

5330 *Agrimonia hamiflora* Nutt. Soland ditto
(2) In low ground near old cabin
just west of black walnut tree across
Hoferville to Broad Run Station highway
very abundant here; just coming into bloom.
(head bright; fl. yellow).

5331 *Setaria lutescens* (Weig.) Hubb. ditto
(2) In old field near cabin and large
black walnut trees (now dug up)
across Hoferville to Broad Run Station highway
south of Hoferville Gap; scattered.

5332 *Cyperus strigosus* L. ditto
(1) Small near # 5329
along brook at black walnut tree
choke.
(Ident. by F. J. Hermann)

5333 *Sagittaria pubescens* Muhl. ditto
(1) No flowering specimens.
In small with # 5332.
Not abundant.

Minulus ringens L. Bull Run Mt., Va
In small with # 5333: Fannin Co.
5334 full bloom. July 31, 1938
H.A. Allard.

5335 *Helianthus trifoliatus* L. ditto
(1) In old pasture,
damp ground just east of Hoferville to
Broad Run Station highway and
near *Pinus rigida* forma *globosa* Muhl.

5336 *Cassia manlandica* L. Fernald ditto
(2) In low rain near # 5335.
full bloom; showy; abundant.

5337 *Ipomoea pandurata* (L.) Meyer. ditto
(1) In old wooded pasture where
Pinus rigida forma *globosa* Muhl.
full bloom; abundant.
(Brown dug up a root, 4 ft deep reaching
5-2 lbs.)

5338 *Solidago nemoralis* Pursh. ditto
(4) In old wheat field (1937) where low
Pinus rigida forma *globosa* Muhl.
Poplar tree 15 feet in dia. colony here
in full bloom.

5339 *Hypericum punctatum* Lam ditto
(1) In old field with # 5338.
abundant in old wheat field (1937)

5340 *Lactuca inflata* L. ditto
(5) In last year's wheat field (1937) where
5339 grows; abundant below
wild carrot very abundant here; full bloom.

Panicum huachucae Ashe. Bull Run Mt., Va
In old wheat field where
5341 covered with wild carrot
(planted to wheat 1937) July 31, 1938
H.A. Allard
(1) Very abundant here below
wild carrot stratum. (See notes) e

5342 *Vernonia glauca* L. Willd ditto
(2) In old browned pasture near
old Riley cabin south of Hagerell Gap. e
ad west of Castello's.
abundant here: full bloom.
a frequent element of the high fir woods
here.

5343 *Commelina communis* L. ditto
(2) Roadside below Castello's,
Hagerell Gap: damp soil. e

5344 *Eleocharis obtusa* (Willd.) Schultes ditto
(1) Growing by roadside in wet ditch
below Castello's, Hagerell Gap. e
Ident. by H.A. Allard; confirmed by T.J. Hermann

5345 *Oxalis corniculata* L. ditto
Oxalis corniculata L. (var. *corniculata*)
Roadside in grassy field
(4) near at Hagerell Gap, between
Castello's and Owens' where no park e
car: abundant; full bloom.

5346 *Juncus acuminatus* Michx. (proliferous form) ditto
(2) Beside railroad just
above Beverly Mill
in wet soil and water. e
(Ident. by T.J. Hermann)
Bull Run Mt. Va
Fauquier Co.
Thoroughfare Gap
August 7, 1938
H.A. Allard

5347 *Hypericum mutilum* L. ditto
(2) Damp soil beside #5346
abundant in damp ground. e

Sarothra gentianoides L. Bull Run Mt. Va
Fauquier Co.
August 7, 1938
H.A. Allard
on railroad
just above
Beverly Mill:
5348 abundant; full bloom.
(orange red) e
Thoroughfare Gap.

5349 *Verbena hastata* L. ditto
(blue var. *var. hastata*)
(2) In wet swale along Broad Run
west of Broad Run station:
abundant; full bloom e

5350 *Panicum huachucae* Ashe ditto
(1) In same swale with #5349 e
very wet, low along Broad Run.

5351 *Gramineae - Panicum agrostoides* Spreng. ditto
(1) In swale with #5349. e
only one specimen found here.
purplish panicles.

5352 *Scutellaria integrifolia* var. *typica* Ehl. ditto
(1) Same swale with #5349. e
abundant here; past flower.

5353 *Prunella vulgaris* L. ditto
(1) In farm with pure, snow white
flowers; first I have ever seen) e
In swale with #5349; blue form
abundant here) e

5354 *Panicum huachucae* Ashe ditto
(1) In ground with #5349. e

Galium asperellum Michx. Bull Run Mt., Va
In wet swale Aug. 7, 1938
along Broad Run Franquier Co.,
5355 near Broad Run Station HA, Allard
abundant; full bloom
fl. white.

5356 Euphorbiaceae.
foliage reddish ditto
on railroad (dry) just above
Broad Run Station
abundant *Chamaecyparissus* (L.) small,
Euphorbia supina Raf. e

5357 Elephantopus carolinianus Willd. ditto
In woods at Shooting Spring
just above Beverly Mill beside railroad.
Full bloom; frequent. e

5358 Labiateae - *Erigeron canadensis* L. ditto
In swale with # 5355.
abundant; nearly past blooming; fl. rose-pink e

5359 *Hypericum punctatum* Lam. ditto
with # 5355
abundant; full bloom. e

5360 Labiateae
In same swale with # 5355 ditto
abundant; full bloom
Wellia blepura (Walt.) MacM. e

5361 *Galium tinctorium* L. ditto
In swale with # 5355
abundant; full bloom. e

In swale along Broad Run Bull Run Mt., Va
just west of Broad Run Aug. 7, 1938
station; very wet. HA, Allard
5362 Thoroughfare of Franquier Co. e
part blooming.
Lysimachia terrestris (L.) B.S.P.

5363 *Verbena stricta* L. ditto
(white var. var.)
In same swale with # 5362 e

5364 *Eleocharis acicularis* (L.) R. & S. ditto
In mud and water of Broad Run
nearby west of Broad Run station
there are extensive bog here
abundant here; not elsewhere in this area.
(Ident. by F. J. Hermann)

5365 *Helianthus giganteus* L. ditto
along railroad just above Broad Run
Station; just in flower.
fl. light yellow. e

5366 Euphorbiaceae - *Euphorbia preslii* (Guss.) ditto
on railroad just above Broad Run Station
abundant; full bloom. e

5367 *Andropogon furcatus* Muhl. ditto
Beside railroad just above Broad
Run Station.
My first record for Bull Run area.
uncommon here. e

5368 *Diodia teres* Walt. ditto
on Railroad just above Broad Run
Station;
abundant; full bloom. e

Polygonum aviculare L. Bull Run Mt., Va.
Aug. 7, 1938
along railroad just
above Broad Run Station. H.A. Allard
5369 abundant; full bloom. Thoroughfare Gap.
Fauquier Co.

5370 *Oxalis stricta* L.
on railroad just above Broad Run Station. ditto
abundant; full bloom.

5371 *Hedera pulegioides* (L.) Pers.
on railroad just above Broad Run Station. ditto
very abundant; full bloom.

5372 on railroad just above Broad Run
Station: abundant. ditto
(3) (lvs. very leafy, small).
Angelica polygonaoides Raf.

5373 *Cynodon dactylon* (L.) Pers.
on railroad bed just below Broad Run Station. ditto
scattered here: in bloom.

5374 *Cuscuta cephalanthi* Engelm.
on *Hedera pulegioides* ditto
and on *Bidens bipinnata* L.
Beside railroad just above Broad Run Station.
abundant; full bloom.

5375 *Oxalis stricta* L.
Beside railroad near Broad Run Station: abundant. ditto

Digitaria sanguinalis (L.) Scop. Bull Run Mt., Va.
Fauquier Co.
on railroad at Broad Run Station Aug. 7, 1938
abundant. H.A. Allard.
above Thoroughfare Gap

5376

(2)

Poinsettia
5377 *Euphorbia dentata* (Michx.) Small. ditto
on railroad just above and
at Berkeley Mill: abundant here: full bloom
My only record in Bull Run area (?)
5377a = *Poinsettia cubaefolia* (Engelm.) Small.

5378 *Chamaesyce preslii* (Duss.) Arthur
on railroad near Broad Run Station. ditto
abundant; full bloom.

5379 *Stenaphyllus capillaris* (L.) Britton.
on railroad above Broad Run Station ditto
very abundant here in almost pure stands
in cinders etc.
Ident. by H.A. Allard (confirmed by T.G. Hermann)

5380 *Eragrostis pectinacea* (Michx.) Nees
Gramineae.
on tufted, grassy on railroad ditto
track, etc. abundant at Broad Run Station

5381 *Eragrostis spectabilis* (Pursh) Steud.
on railroad just above Berkeley Mill ditto

5382 *Cynodon dactylon* (L.) Pers.
on cinders on railroad ditto
near Broad Run Station.
abundant; flowering.

Agrimonia parviflora Nutt. Bull Run Mt., Va.
soland Franconia Co.
In damp meadow August 7, 1938
5383 on Broad Run just H.A. Allard
above Thoroughfare Thoroughfare Gap, Cal.
Cal. above R.R. leaves
cut - meadow low ground on left
here; very abundant; full bloom. e

5384 *Eupatorium coelestinum* L. ditto
(2) In small along Broad Run
near (west) of Broad Run Station, e
a low area all the way to the cooling station
at bridge above Broad Run Station; abundant
here; full bloom; fl. purple, showy.

5385 *Lycopus americanus* Mill. ditto
(2) In same small with # 5384
abundant; full bloom. e

5386 *Minerulus ringens* L. ditto
(2) Same small with # 5384; abundant;
full bloom. e

5387 *Scirpus validus* Vahl ditto
(2) Same small with # 5384.
small colony only.
(Ident. by F. J. Hermann) e

5388 *Scirpus cyperinus* (L.) Kunth ditto
(3) In same small with # 5384.
Very abundant here.
(Ident. by F. J. Hermann) e

5389 *Brassicaceae*. ditto
(1) Same small with # 5384
very few plants; fl. yellow.
Radiola hibernica (L.) Moench. e

Penthorum sedoides L. Bull Run Mt., Va.
Same small with # 5384 Franconia Co.
Tall herb; shortly serrate Aug. 7, 1938
5390 leaves; flowers in a terminal H.A. Allard
(4) panicles, whitish or yellowish above
Thoroughfare Gap, Cal. e

5391 *Asclepias purpurascens* L. ditto
(1) Same small with # 5384
Very abundant here e
- *A. pulchra* Ehrh.

5392 *Cephalanthus occidentalis* L. ditto
(3) Same small with # 5384.
abundant here on Broad Run; e
have not found it elsewhere.

5393 *Plantago aristata* Michx. ditto
(1) On railroad near Broad Run Station.
abundant here. e

5394 *Polygonum* ditto
(2) Same small with # 5384.
abundant; full bloom; fl. white.
- *Persicaria punctata* (Ell.) Small. e

5395 *Indigofera alternifolia* L. ditto
(1) Same small with # 5384
abundant; full bloom. e

5396 *Crotalaria sagittalis* L. ditto
(2) On railroad just above Broad Run Station.
Leaves very narrow;
full bloom. e

Epilobium coloratum Muhl. Bull Run Mt., Va
in small pool above
5397 Broad Run Station H.A. Allard
along Broad Run
creek on left of railroad.
(1) full bloom; abundant here.) e

5398 *Cirsium lanceolatum* (L.) Mill. ditto
(1) in same meadow near
5397: very abundant; coming
well into bloom; tall, rank.) e

5399 *Scirpus polyphyllus* Vahl. ditto
(3) along Broad Run in
wet meadow near Broad Run Station.
(Ident. by F. J. Hermann)) e

5400 *Scirpus cyperinus* (L.) Kunth. ditto
(2) small on Broad Run above
Beverly Mill on left side stream
leaves cut and withered.
(Ident. by F. J. Hermann)) e

5401 *Mentha cordata* Berard. ditto
(2) small near Broad Run Station,
along Broad Run where it leaves
the cut and withered above Beverly.
full bloom: bluish fl; not abundant.) e

5402 *Ludwigia palustris* (L.) Ell ditto
(4) ~~*Ludwigia palustris*~~ near # 5401
abundant here. As we walk
from Beverly to Broad Run Station, and
leave the railroad cut, this is low ground
on left on Broad Run in small here.) e

5403 *Anagallis arvensis* L. ditto
(3) Primrose
by railroad above Beverly Mill.
abundant; full bloom.) e

Crotos glandulosus L. Bull Run Mt., Va
on railroad at just above Beverly
5404 Mill. abundant: H.A. Allard
(11) only seed in Bull Run area.) e

5405 *Koeleria nicana* (L.) Nutt. ditto
(2) on railroad bank in thicket
just above Beverly Mill; abundant;
full bloom.) e

5406 *Sonchus oleraceus* var. *glaberrimus* Nutt. ditto
(1) Rail road near Beverly Mill.
full bloom; bright yellow heads.) e

5407 *Cyperus strigosus* L. ditto
(1) not shot by railroad near
Beverly Mill (Ident. by F. J. Hermann)) e

5408 *Cyperus flaccidus*
(1) not shot by Railroad at Beverly Mill ditto
(Ident. by F. J. Hermann)) e

5409 *Acalypha virginica* var. *gracilis* A. Gray. ditto
(2) Rail road near Beverly Mill.
very abundant.) e

5410 *Cassia nictitans* (L.) Muhl. ditto
(3) Rail road near Beverly Mill;
abundant; full bloom; fl. small;
leaves clearly shiny when struck, so we can see
motion.) e

Euphorbia
on railroad
5411 near Bererley Mill. Bull Run Mt., Va
August 7, 1938
Fauquier Co.
H.A. Allard
Near Thoroughfare Gap.
Poinsettia cubensis (Engelm.) Small. e

5412 *Oxalis europaea* forma *cymosa* (Small) Wieg.
Railroad just above Bererley Mill. ditto
Abundant: full bloom. e
5412a: *Oxalis stricta* L.

5413 *Hypericum gentianoides*
Railroad near Bererley Mill. ditto
Abundant: full bloom. e
= *S. arthra gentianoides* L.

5414 *Medicago lupulina* L.
Railroad at Bererley Mill. ditto
full bloom: only locality in this area. e

5415 *Chenopodium album* L.
By Railroad near Bererley Mill. ditto
e

5416 *Eleocharis obtusa*
in wet soil by railroad just above Bererley Mill: abundant. ditto
e

5417 *Cyperus flarescens* L.
in wet soil by railroad at Bererley Mill. ditto
e

Paspalum pubescens Bull Run Mt., Va
Fauquier Co.
August 7, 1938
H.A. Allard
Bererley Mill
Thoroughfare Gap. e

5419 *Leersia angustoides* (L.) Sw. ditto
in wet soil just above Bererley Mill by railroad. e

5420 *Sharganium angustifolium* (Engelm.) Muhl. var. *angustifolium*
in mud and water on left of Broad Run just above cut at Thoroughfare Gap going toward Broad Run station: abundant. ditto
e

5421 *Carex frankii* Rostk. Schmidt
in wet soil along Broad Run just above where railroad leaves Thoroughfare Gap: in small at left, where railroad leaves cut: abundant. ditto
e
Ident. by F. J. Hermann

5422 *Sagittaria hirsutissima* Mark. & B. ditto
in mud and water in small along Broad Run at left just above Broad Run station. e
5422a (same as above): 5422

5423 *Sagittaria latifolia* Muhl. var. *pubescens* ditto
in small north of Broad Run station along Broad Run. e
(pubescent)

5424 *Dianthera americana* L.
in Broad Run at Bererley Mill. ditto
not in bloom; past bloom, but for a record. e

Tenorella canadensis Bull. Run Mt., Va.
mint. Franquier Co.
August 7, 1938
Near Thoroughfare Gap.
5425 bl. pink.
(2) In small on Broad Run H.A. Allard
just west of railroad above
Broad Run Station: passing.

5426 *Commelina communis* L.
(3) on bank beside railroad ditto
near Bererly Mill: abundant:
full bloom

5427 *Alisma plantago* ^{subcordatum Raf.} ~~agnatica~~ L.
(1) In small of mud and water ditto
just above Thoroughfare Gap
on Broad Run: abundant;
full bloom.

5428 *Gypsea petiolata* L. Ruby.
(1) ^{Parsonia} In meadow and along railroad ditto
just above Thoroughfare Gap.
Very abundant: full bloom.

5429 *Rhynchospora* ^{capitata (Michx.)} ~~floridula~~ ^{var. minor Britton}
(3) In damp low shot at Devil's Hole Mt., Va.
Gaf below abandoned CCC camp. Sheandoah Co.
a dense pine area here: very abundant. Damp shot at Gaf
beyond 3 mile mt.
August 14, 1938
H.A. Allard
Identified by F.J. Hermann) *Alleg. penn.*

5430 *Juncus effusus* L. var. *solutus* Fern. ditto
(5) Growing beside # 5429. Large clumps. Ident. by F.J. Hermann.
Damp soil. (seeds without tails)

5431 *Juncus macrocarpus* S.F. Gray
(3) Growing near # 5429. abundant.
(seeds without tails) Ident. by F.J. Hermann)

Lycopodium virginicum L. Devil's Hole Mt., Va.
same low shot with Sheandoah Co.
August 14, 1938
H.A. Allard
5432 leaves decided at abandoned CCC camp
(4) purplish beneath. in Gaf beyond 3 mile mt.
(Alleg. penn.)

5433 *Juncus marginatus* Roth. ditto
(2) Growing with # 5429
seeds without tails.
(Ident. by F.J. Hermann)

5434 *Juncus macrocarpus* S.F. Gray. ditto
(2) Growing with # 5429
(seeds not tailed) Ident. by F.J. Hermann)

5435 *Empetrum sessilifolium* L. ditto
(1) on trail at top and along
Devil's Hole Mt.: abundant: full bloom

5436 *Pyrolanthemum inaequalis* Michx. ditto
(2) On same dry ridge with # 5435
abundant: full bloom on trail here.

5437 *Thysanotus* ^{Thysanotus} *apiculifolius* (L.) Kuntze ditto
(2) on same dry rocky ridge crest
with # 5435: abundant here.
why?

5438 *Cladonia* ditto
(1) on bank on dry ridge crest
with # 5435: abundant.

Asplenium montanum Willd. Shenandoah Co. Va.
on dry cliff shelves
August 14, 1938
5439 shaded from sun at very top, and far from water.
H.G. Allard. Alleghenies

Rock a red sandstone apparently
and shaley. a number of disjuncts
here.

5440 *Juncus macer* S.F. Gray.

" Growing in damp soil near
abandoned CCC camp at Gap beyond
3 mile mountain near peak of Devils Hole Mt.
(Ident. by F. J. Hermann)

5441 *Juncus marginatus* Rostk.

" Growing with # 5440
(Ident. by F. J. Hermann)

5442 *Cyperus strigosus* L.

" Growing with # 5440
(Ident. by F. J. Hermann)

5443 *Juncus subcandatus* (Engelm.) Gill & Blake
" Growing near # 5440
(Ident. by F. J. Hermann)

5444 *Juncus marginatus* Rostk.
" Growing near # 5440
(Ident. by F. J. Hermann)

5445 *Juncus acuminatus* Michx.
(2) Growing with # 5440.
(Ident. by F. J. Hermann)

Rhynchospora glomerata (Willd.) Britton & Allen
var. *minor* Britton & Allen
Same spot at Shenandoah Co.
August 14, 1938
5446 abandoned CCC camp at Gap beyond 3 mile Mt., Va., near of Edinburgh.
H.G. Allard.
(Ident. by F. J. Hermann)

5447 *Juncus macer* S. anthelatus
" Near # 5446
(Ident. by F. J. Hermann)

5448 *Juncus marginatus* Rostk.
" Near # 5446
(Ident. by F. J. Hermann)

5449 *Juncus macer* S. anthelatus
(2) Same locality with # 5446.
(Ident. by F. J. Hermann)

5450 *Juncus macer* S.F. Gray.
" Same locality with # 5446
(Ident. by F. J. Hermann)

5451 *Juncus marginatus* Rostk.
" Same locality with # 5446
(Ident. by F. J. Hermann)

5452 *Juncus subcandatus* (Engelm.) Gill & Blake
" Same locality with # 5446.
(Ident. by F. J. Hermann)

Juncus marginatus Roth. Seils Hole Mt., Va
at abandoned CC camp Shenandoah Co
out Gap beyond 3 mile Mt., August 14, 1938
5453 in moist soil. H.A. Allard.
(2) Ident. by T. J. Hermann) *Allegheniensis* e

5454 *Juncus macrocarpus* f. *anthelatus* (N. K. J.) Hermann. ditto
same locality with # 5453 e

5455 *Eleocharis obtusa* Willd. ditto
(4) at same wet spot with # 5453: abundant here e

5456 *Juncus marginatus* Roth ditto
(2) same locality with # 5453 e
Ident. by T. J. Hermann)
5456 A - *J. subcaudatus* (Engelm.) Coville & Blake e

5457 *Cyperus strigosus* L. ditto
(4) same low spot with # 5453 e
Ident. by T. J. Hermann)

5458 *Hibiscus oculi roseus* Britton e
(2) Swale on left of road near Columbia Turnpike
to Columbia Turnpike several miles west
along Stony Creek. of Edinburg in
Shenandoah valley,
Shenandoah Co.
very abundant; full flower August 14, 1938
H.A. Allard.

5459 *Pilea pumila* fontana (Lunell) Rydb. ditto
(3) same swale with # 5458. e
Ident. by T. J. Hermann)
Aug 26, 1938.

Sagittaria arifolia (L.) Smith. Bull Run Mt., Va
in swale just Franquier Co
along Broad Run station August 13, 1938
5460 (2) abundant H.A. Allard
Ident. by T. J. Hermann.) e

5461 *Sagittaria pubescens* Muhl. ditto
in swale close to road
(2) just north of Broad Run station: e
very abundant here: just in flower.

5462 *Cornus bicolor* L. ditto
(4) Dry road side bank just west
of Thoroughfare Gap: A large, branching
bush 6 ft high: flowers yellowish white e
turning reddish: not abundant here
some on Triassic area near Thoroughfare.


5463 *Quercus alba* L. Allard's yard
(4) (all from same tree) 3000-7th St. N.E.
Arlington, Va
August 18, 1938
H.A. Allard e

5464 *Quercus alba* L. ditto
" from a different tree.
lobes coarser. e

5465 *Rudbeckia triloba* L. ditto
(5) in low grassy field along Massanutten Range,
valley Pike on road from August 19, 1938
below Mt. Jackson to Short Mt. H.A. Allard
abundant; full flower. e

5466 *Liatris scariosa* Willd. ditto
(3) steep shale (dry) near roadside
where we parked. just in flower. e

Mass. In woods Smith end of Short Mt., Va
(thin) in *Cetraria islandica* colony. Massanutten Range,
Shenandoah Co August 19, 1938.
5467 H.A. Allard

5468 *Cladonia*  ditto
On shales in thin woods
near *Cetraria islandica* colony

5469 *Cladonia* ditto
Same locality with # 5468

5470 *Rubia eupatorioides* L. ditto
(3) On dry shales below cliffs:
abundant: full bloom but passing
(cream white fl.) at Signal Knob
a typical shale plant on all these shales

5471 *Commelina erecta* L. ditto
(5) On shales well up Short Mt. here;
abundant on all these shales
throughout: a typical shale barren plant.
full bloom

5472 *Scutellaria pinnatifida* Ehl. ditto
(1) *leonardi* Ehl.
on shale slope well up mt.
near # 5471

5473 *Quercus rubra* *macrocarpa* Ashe ditto
(1) acorns peculiar in being
(3) very long on this tree. cup 1.8 cm across
acorn 2.7 base to tip
" 1.5 projecting from same.

South end of Short Mt., Va
Quercus rubra *macrocarpa* Ashe Shenandoah Co.
on shale barrens August 19, 1938.
5474 below cliffs. H.A. Allard
abundant: acorns on shale slope below
(2) normal, not as long as cliffs. H.A. Allard.
as in # 5473. very prolific: trees
multiple stemmed, 10-15 feet high. e
a common shale barren tree.

5475 *Quercus muhlenbergii* Engelm. ditto
abundant on the shales below the
(17) cliffs: full fruit: but young, much less
mature than true Rock Chestnut oak
also here, especially abundant here:
some badly mildewed, e

5476 *Quercus prinus* L. ditto
(1) abundant in scrubby form on
the shale barrens here) e

5477 *Eragrostis pectinacea* (Michx.) Nees
(2) Growing on side walk Front Royal,
on a street in Warren Co., Va.
Front Royal; August 19, 1938
very vigorous. H.A. Allard. e

5478 *Quercus rubra* *macrocarpa* Ashe ditto
(3) On shales with # 5475 etc. e
(Below cliffs on shales proper, but
all over the mountain to the cliffs)

5479 *Quercus rubra* *macrocarpa* Ashe ditto
(1) On shales below cliffs: e
acorns long as in # 5473

5480 *Quercus rubra* *macrocarpa* Ashe ditto
(2) acorns and cups large: e
proportionately shorter and
thicker than # 5473 & # 5479.
on shale barrens with # 5479

Bidens bipinnata L. South end of Short Mt., Va.,
Massanutten Range,
on cliffs and Shenandoah Co.
5481 rocks at extreme August 19, 1938.
(4) Top of ridge at H.A. Allard
2700 ft. Some flat rocks with thin
soil (horizontal) covered with fine stand of
small plants among mosses.
5482 Mosses left them moist.

(4) *Empetrum sessilifolium* L. ditto e
On top of cliffs at 2700 feet
highest point on this ridge; full bloom;
abundant.

5483 Moss. On top of cliffs at 2700 ft.
(1) On large horizontal rocks of 8-10 ditto
square feet with # 5484 with which it was
competing. This rock covered entirely with
a fine covering of these two mosses.

5484 Moss
(1) a beautiful bright green moss
growing on same flat rock with # 5483, ditto
competing with it

5485 *Salix latifolia* Michx. ditto
(1) On top of cliffs near # 5482
part blooming; in fruit; abundant;
but not on shales below. This habitat on
cliffs above shade one of deciduous, dry woods.

5486 *Polygonum texense* Michx. ditto
(3) On barren shales below cliffs.
scattered here.

5487 *Allium cernuum* Roth e ditto
(1) On barren shales and shale
cliffs below upper cliffs; abundant.
part blooming; a typical shale plant
here in very barren places.

Selaginella rupestris (L.) Spring South end of Short Mt., Va.
Massanutten Range,
On barren shales and Shenandoah Co.
5488 shale outcrop August 19, 1938
below cliffs; H.A. Allard
(1) abundant; gray green like a moss;
appressed.

5489 *Bouteloua curtipendula* (Michx.) Torr. ditto e
(3) on shales directly below cliffs;
one patch about 12 x 25 ft in area;
full bloom; my first record for Virginia

5490 *Celtis occidentalis* *crassifolia* Lam. ditto
(3) On shales just below peak
of Clinton sandstones; abundant
here, but scrubby.

5491 *Quercus prinus* L. ditto
(1) (Rock Chestnut Oak)
On barren shales near # 5490; e
abundant; fruitful.

5492 *Quercus muhlenbergii* Engelm. ditto
(1) On barren shales near
5490; abundant; fruitful,
but acorns less advanced than
Quercus prinus. Have three from
found it only on south end
of Short Mt.

5493 *Carduus acanthoides* L. Great Valley of Va.
(5) Abundant by roadside e Shenandoah Co.
near Woodstock; still on Valley Pike
blooming but mid season earlier - August 21, 1938
H.A. Allard.

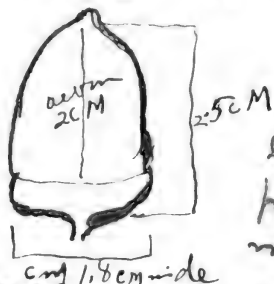
5494 *Helianthus strumosus* Bull. Bull Run Mt., Va.
(3) e *Helianthus scabra* Pursh e
beyond Thoroughfare Gap on Shenandoah Co.
The right of detour on rough road August 21, 1938
H.A. Allard.
14 inch Rudbeckia laciniata here
also. fl. rich deep yellow comp. with B. laciniata

Houstonia tenuifolia Nutt. Three Top Mt., Va. west slope
 on barren shales Shenandoah Co.
 on ridge beyond Massanutten Mts.
 5495 August 21, 1938
 (1) packed on Pughs Run H.A. Allard
 road: abundant; still
 in bloom on rocky upper slopes. e

5496 *Angelica polygonoides* Raf. ditto
 (2) on dark shales (but, barren) e
 with # 5495, forming extensive
 pure stand patches; also in woods
 above: full bloom. Honey bees visit these
 tiny flowers, finding them readily.

5497 *Setaria viridis* (L.) Beauv. ditto
 (2) on barren shales where
 little else grows; near # 5495
 scattered over there. e

5498 *Quercus rubra* Moench. Ashe ditto
 (2) on barren shales
 with # 5495; abundant,
 low, scrubby - 10-15 ft. high;
 productive; abundant all
 way up mountain to top. e



5499 *Isanthus brachiatus* (L.) B.S.P. ditto
 (4) on barren shales above the steep cliff
 outcrops; abundant here: full bloom. e
 first record for Va. a typical shale plant.
 (Near # 5495)

5500 *Carex frankii* Kunth. ditto
 (3) In cellar of old abandoned
 house at foot of mt. near door. e
 a large clump here. (Extensive thickets
 of wine berry here)

5501 *Meibomia dillenii* Darl. ident. by F. J. Hermann. ditto
 (4) In pasture thicket near
 old house mentioned
 for # 5500; abundant. e

Crataegus pruinosa (Wendl.) K. Koch. Three Top Mt., west slope, Va.
 Massanutten Range.
 (1) fruit ripe, crimson. Shenandoah Co.
 a large colony on August 21, 1938
 5502 cliffs at very H.A. Allard
 (3) Top of ridge, old fruiting heavily; e
 very showy with crimson fruit.

5503 *Quercus prinus* L. ditto
 (1) On upper slope at top just e
 below # 5502.
 dominant sh. with Red Oak: fruiting
 heavily.

5504 *Ribes rosularia rotundifolia* Michx. Cop. & Britt. ditto
 (2) (grouseberry) on upper slopes on exposed
 sunny slides: scattered and more or
 less general. e

5505 *Carya glabra* (Mill.) Britton ditto
 (4) On barren shales with # 5503, e
 where abundant, but low - 10-20 ft., scrubby;
 bearing prolifically: a true shale species
 here, even where little soil on cliffs.

5506 *Clitoria mariana* L. ditto
 (3) abundant, full bloom on shale e
 barrens here, low stem, loose,
 forming large, paired colonies.
 Very showy: a shale lover.

5507 *Lobelia* Near Woodstock, Va.
 (3) (fl. pink) e Roadside on Valley Pike
 August 21, 1938
Calamintha Nepeta Link H.A. Allard.

5508 *Spiranthes beckii* Lindl. ditto
 (1) In old field near
 old abandoned house where
 # 5501 grew. e

Juncus scirpoides Lam Bull Run Mt., Va
August 28, 1938
H.A. Allard
In low ground
along weiflow
below chestnut tree
spring at Allen's (negro) cabin, east slope.
This beyond Mrs. Ashby's (nest)
(Ident. by F.J. Hermann)

5509 *Rhynchospora capitellata* (Michx.) Vahl. ditto
(4) Growing abundantly with # 5509 -
along low area here.
(Ident. by F.J. Hermann)

5511 *Solidago nemoralis* Ait ditto
(1) Old field near Allen's cabin -
just west of # 5509: abundant: full bloom
(Green) Tomald

5512 *Solidago graminifolia* var. *multiflora* (Green) Tomald ditto
(1) Dry old field: growing beside
5511: abundant: just coming
into bloom

5513 *Empetrum nigrum* L ditto
(3) Dry thicket in cut over woods
east slope just above Allen's chestnut tree
spring: abundant here: full bloom.

5514 *Smilax rotundifolia* L. ditto
(1) Same thicket with # 5513
abundant: fruit green yet.

5515 *Lobelia spicata* (Muhl.) Michx ditto
(4) Same thicket with # 5513
abundant: full bloom: fl. blue.

Sphagnum Bull Run Mt., Va
North of Antioch -
Prince William Co
August 28, 1938
H.A. Allard.
In same thicket
with # 5513: a
5516 seepage spot here on
(1) an otherwise very dry,
rocky steep mountain slope; practically
dry moss: but moss healthy.

5517 *Lespedeza bicolor* (L.) Hornem. ditto
(3) In same thicket with # 5513:
abundant here and on dry rocky wooded
ridge above: full bloom: fl. cream.

5518 *Lespedeza frutescens* (L.) Britton ditto
(3) In same thicket with # 5513:
abundant: full bloom: in dry
woods above on crest etc: fl. purple

5519 *Populus grandidentata* Michx. ditto
(2) On crest of dry ridge in burn
on easternmost ridge just west of
Ashby's: abundant: these leaves
very pointed.

5520 *Desmodium laevigatum* DC ditto
(4) On hillside in thicket and young
growth of pines (Va) & rigida and
chinquapin just S.W. of Allen's: abundant
on all dry ridges here: full bloom: fl. purple
just in flower: tall: slender to head high

5521 *Meibomia linearis* DC. ditto
(2) ~~Desmodium laevigatum~~ *Meibomia linearis*
growing with # 5520: (are not a pair)
abundant: full bloom: on these ridges
dry wooded ridges generally: fl. purple.

5522 *Meibomia dillensis* Darl. ditto
(2) In same locality with # 5520: ditto
abundant: full bloom: fl. purple.

In small between Great Valley of Va
Edinburgh and Columbia Shenandoah Co.
Tennessee. (Plants) Sept. 5, 1938 e
5523 of same colony coll. H.A. Allard
Aug. 26, 1938
Pilea See # 5459 - Pilea fontana (Dunnell) Rydb.
ident. by F.J. Hermann
9-8-38

5524 Amychrisastrum montanum Shenandoah mts.
#5529 west Va., Hardy Co.
18, on dry shale slopes Sept. 5, 1938
where road side was built into H.A. Allard
at top of mountain: a pure stand
nearly closed; leaves very large,
ident. by Dr. F.J. Hermann
9-8-38

5525 Scirpus capricornis var. pilosus Torr. & Griseb.
31, Damp spot by roadside Spruce Knob,
at 4400 ft Pendleton Co.,
west Va.
abundant. Sept. 5, 1938
H.A. Allard

5526 Moss
11 Damp spot in open
pasture just west of Mr. Moses
Bennett place, where Anaphalis
margaritacea is abundant. ditto
- Pogonatum pennsylvanicum (Hed.) Paris.
5527 Juncus macer S.F. Gray.
11 Near # 5526 e ditto
abundant, ident. by Dr. F.J. Hermann
9-8-38

5528 Centaurea maculosa L. On top of e
3, on highway from Shenandoah mts.,
Harrisonburg to Franklin Va., Rockingham Co.,
Beside road near west Va. line Sept. 4, 1938
several plants: full bloom. H.A. Allard.
showing. (Cuneifolius Pilase S.F.)
9-8-38

5529 Amychrisastrum montanum.
151 same locality with # 5528. e ditto
very abundant; on dry shales by
roadside; appears localized at
high altitudes in mts.
- Paromychium festigiatum (Raf.) Fern.
var. pumila (Wood) Fern. - ident. 9-8-38 by Dr. F.J. Hermann

Composite yellow fl. L. In Geo. Wash. Nat. Forest
= Hieracium pilosella L. beyond Harrisonburg, Va.
on road to Thompsons, West Va.
5530 in woods Sept. 4, 1938
H.A. Allard
11 by stream before
ascending Shenandoah Mt. e
ident. by S.F. Blake 9-8-38

5531 water plant
at stream shore # 5530 green. ditto
11 Fronds extending dense green
patches on water and in mud:
no flowers.

5532 Solidago rugosa Mill. at Dumas, west Va.
31 all over the plateau Tucker Co.,
here the most abundant Sept. 5, 1938
goldenrod: full bloom. H.A. Allard.
very showy. These found
near old pulp factory mine. alt. 3100 ft

5533 (Aster umbellatus Mill.) e
11 same loc. with # 5532. ditto
were the plateau. the most abundant
species: entering the thicket.
Sollingeria umbellata (Mill.) Nees

5534 Aster.
11 Growing on outcrops with
5533: abundant; full bloom;
rays blue, showy. ditto

5535 (Cacalia sarscolella) e ditto
11 Growing near # 5532 e ditto
abundant: full bloom.
Synosoma sarscolella (L.) Raf.

5536 Cirsium anemone (L.) Scop. e ditto
11 Growing at ruins of
decimated pulp factory
at Dumas: a few plants: in full
bloom. Growing near # 5532.
ident. 9-8-38 by Dr. F.J. Hermann

Spiraea salicifolia
In low ground
5537 near Allegheny Trout. Truckee Co.,
nearly past blower; H.G. Allard.
(2) very abundant.
Leonard says *S. alba* DuRoi

5538 *Polytrichum commune* Hedw.
Mass ditto
(2) In low ground and very wet producing a
very green boggy roadside, water beneath
ill-smelling. Note long dead portion
below; this singular to a sphagnum
bog.

5539 *Solidago puberula* Nutt. On top of Shenandoah Mt., Va.
(2) On wood road near West Va. line.
from Lost River to Shenandoah Co.
Columbia Turnpike. Sept. 5, 1938
full bloom; abundant. H.G. Allard

5540 *Angelica villosa* (Walt.) B.S.P. Bull Run Mt., Va.
(1) on roadside in woods Sept. 11, 1938
1 mile north on valley road H.G. Allard
crossing R.R. just south of Frazier Co.
Berkeley Mill scattered in fruit mostly

5541 *Cuscuta compacta* Gray
(1) in *Hydrangea arborescens* ditto
In woods beside road near # 5540

5542 *Gerardia tenuifolia* Vahl
(3) on wooded bank near # 5540 ditto
full bloom; flowers purple.
By roadside here

5543 Moss
(1) In woods on bank north
of R.R. at Berkeley Mill.
about 1 mile north. ditto

Leptodea procumbens Muhl. Bull Run Mt., Va.
In pasture north of Sept. 11, 1938
old chimney and cellar H.G. Allard
hole north of R.R. on Frazier Co.
valley road - near edge of woods.
(2) This near the flag stone granary here.

5545 *Quercus rubra* L ditto
(1) Red oak - typical.
Large tree just beyond here # 5544 grass
on fence run near flag stone granary
and negro houses.

5546 *Carya glabra* (Mill) Britton ditto
(3) ^{Victoria} Tree on edge of woods beyond
5545 just above negro houses.

5547 *Carex tripteris* L ditto
(2) Old field around abandoned cabin
beyond # 5546 - very abundant this
year. Last year very few; perennial.
Field yellow

5548 *Lechea racemulosa* Lam. ditto
(3) In old pasture near granary
near old cabin where # 5547 grows;
abundant.

5549 *Eragrostis spectabilis* (Pursh.) Steud ditto
(2) In old field or pasture near
5547, abundant; showing
reddish purple.

5550 *Heibornia* ditto
(2) In same old pasture
near # 5544.
Scamodius dillerii Darl.

Aristida oligantha Michx. Bull Run Mt., Va.
Sept. 11, 1938
In old pasture. H.A. Allard
Fauquier Co.
5551 ~~near # 5544,~~
(1) 5549, 5550 etc.
Large areas in dry sterile soil, e

5552 *Rudbeckia hirta* ~~monticola~~ small
(1) In same old field with ditto
5551 etc. a few still in
bloom; mostly past. was very abundant
this field. e

5553 *Solidago gaminifolia* var. *mutabilis* (Greene) ~~mutabilis~~ ditto
(2) var. *mutabilis*?
In same old field with
5551: abundant here,
(very brittle) e

5554 *Cyperus strigosus* L.
(1) not shot in old pasture near ditto
5551 (Det. by F. J. Hermann
9-19-38) e

5555 *Panicum philadelphicum* Bernh. ditto
(1) In same old field with
5552 e

5556 *Cyperus strigosus* L.
(1) In not shot in same old ditto
field near # 5555
(Det. by F. J. Hermann 9-19-38) e

5557 *Cyperus rivularis* Kunth.
(2) In not shot in old field ditto
near # 5554.
(Det. by F. J. Hermann 9-19-38) e

Fraxinifolia *antennalis* Bull Run Mt., Va.
Sept. 11, 1938
In low spot near Fauquier Co.
H.A. Allard.
5558 # 5-5-54. abundant here
(1) var. *micronulata* (Michx.) Tuckerm.
(Det. by F. J. Hermann 9-18-38) e

Meibomia *desmodium* *dillenii* Darl. ditto
5559 Road side in woods just
(1) north of rail road on entering
valley road below Beverly Mill.
full bloom. e

5560 *Echinochloa crus-galli* ditto
(2) Roadside near # 5559: abundant.
var. *mutis* (Pursh) Peterm. e

5561 *Leersia virginica* Willd. ditto
(2) Bank in woods on roadside
near # 5559 e

5562 *Panicum polyanthes* Schult. ditto
(3) On roadside bank near # 5559 e

5563 *Leersia angustata* (L.) Sm. ditto
(1) In low, open, not shot by
roadside a few hundred yards
north of railroad on valley road. e

5564 *Meibomia* *desmodium* *dillenii* Darl. ditto
(3) In old field where black walnut
tree stood and old chimney - it
1/4 mile N. of railroad below Beverly on
valley road. e

Limonium purpureum (L.) Lam. Bull Run Mt., Va
in old field with tangier Co
#5564 around Sept. 11, 1938
old house site where H.A. Allard
black walnut tree stood; much
Lycium here.

5566 *Americus falcata triloba* Michx.
(2) several trees on valley road just
south of Berkeley old near railroad
track bed on this dry ridge.

5567 *Antinomeris alternifolia* DC
(2) In damp thickets, very abundant
just below Berkeley Mill above
rail road.

5568 *Vitis vulpina cordifolia* Michx.
(2) Leaves very shallow, broad
In damp thickets with #5567 at
rail road below Berkeley Mill.

5569 *Panicum stipitatum* Nash
(15) In small just
west of Thoroughfare Gap near where #55
highway turns on dirt detour, ie

5570 *Helianthus annuus* L.
(1) On filled in land on New Jersey
bluffs below New York; area on #1 New Jersey
coll. by C.W. Bacon, V.S.D.A.
Sept 1938 (Appears to be *Hyemendresium*
to a wild many headed form)

5571 Lichen
(1) on shales of west
slope, at end of road
turning off Highway #11
at Pugh's Run
Three Top Mountain, Va
Massanutten Range
north of Woodstock
Shenandoah Co.,
from Pugh's Run
Sept 18, 1938
H.A. Allard.

Lichen
on shale cliffs
with #5571
5572 (slope very steep)
(near slides)
Three Top Mt., Va
Shenandoah Co
north of Woodstock
at end of road at
Pugh's Run
Sept. 18, 1938
H.A. Allard.

5573 Lichen
Same locality with #5571 ditto
(on shale cliffs)

5574a = *C. verticillata* (Hoffm.) Schaer. (indefinite in form)
5574d = same as 5574.

5574 *Cladonia subcariosa* S. *evoluta* Wain.
(1) on shale slope in woods ditto
of west slope, cups with
5574a = *C. verticillata* S. *evoluta* (Th. Fr.) Steyer.
5574b = same as 5574.
5574c = *C. verticillata* subsp. *aggregata* (Det.) Alis.

5575 *Cladonia* - cup formed ditto
on shale slope in thin
woods near #5574
cups with squamules.

5576 *Cetraria islandica* L. Ach. e ditto
(1) on shale ridge in thin
woods west slope - near #5575
+ mosses.

5577 Moss
(1) On shales on crest of
ridges in thin thickets - ditto
of Red oak, *Solidago* *botri*, *Robinia*

5578 *Americus velutina* Lam.
(18) Leaves deeply lobed and lobes
margin, resembling red oak, but
much more pubescent beneath; awns
typically black. On good before we
got to farm where we parked car - all from
individual tree A.

Quercus marilandica
velutina Lam.
on shale ridge -
on ridge just north of
5579 farm house where we
hiked, in dry sterile shale pasture
with low slope;
Three Top Mt., Va.
Massanutten Range,
Shenandoah Co.
Sept. 18, 1938
H.A. Allard

5580 *Eragrostis*
(1) Roadside near # 5578 ditto
(Green panicles)
Panicum capillare L. e

5581 *Polygonum tenue* Michx.
(3) On shales with # 5579; same
locality; abundant here ditto e

5582 *Amaranthus*
gracilis L.
(3) In door yard of farm
house; prostrate; abundant;
Shenandoah Co., Va.
Sept. 18, 1938
H.A. Allard

5583 *Kuhnia eupatorioides* L.
(4) Near bridge on Pugh's Run just north of roadstop
just off U.S. highway #11 and just off U.S. highway
also abundant on Massanutten #11, on limestone
shales of Signal Knob, Three Top Mt. ch. Sept. 18, 1938 e
H.A. Allard

5584 *Hypericum*
gentianoides L. BSP.
(3) on shales with # 5579 and # 5581 ditto e
very abundant in this pasture

5585 *Trichostema dichotomum* L.
(6) In same locality together ditto e
(7) with # 5581; very abundant here
on a thin, heavily wooded shale
slope in pasture.

Sarrhus hachiatns L.) Massanutten Range,
Three Top Mountain, Va.
on shale ridge
5586 just east of Three Top Mt., Shenandoah Co.
Sept. 18, 1938
H.A. Allard
(6) here we hiked at
end of Pugh's Run; abundant; full
bloom. e

5587 *Empetrum nigrum* L. Reich. ditto
(2) Low plant very brown hairy; is
it var. *villucanle* Thernald, e
Growing with # 5581.

5588 *Gnaphalium obtusifolium* L.
(3) Growing with # 5581; abundant; ditto
full bloom. e

5589 *Quercus marilandica* Muench ditto
(2) Growing in shale pasture e
with # 5581

5590 *Paronychia fastigiata* (Raf.) Fern ditto
(1) var. *pinnata* (Wood.) Fern.
on shales with # 5586
abundant; full bloom; style long

5591 *Aristida dichotoma* Michx. e ditto
(1) Growing with # 5585

5592 *Houstonia* Nutt. e ditto
(2) Growing with # 5585;
abundant; full bloom; passing.
Houstonia tenuifolia Nutt. e

Solidago bootii Hook Massanutten Range,
var. Three Top Mountain, Va
on steep shales Shenandoah Co
5593 with # 5586: Sept. 18, 1938.
very abundant here H.A. Allard
at top: scarcely any in flower: very
late. on steep shale ridge just east
of foot of slope of Three Top Mt.

5594 *Verbascum phlomoides* L
(3) on Pughs Run just off
U.S. highway # 11, north of Woodstock, Va.
By roadside, a colony in full flower.
flowers larger, brighter yellow than
those of *Verbascum thapsus*. Doering agrees
5595 well with description in Gray et al.,
herbar. My first record for Va.

(1) *Chenopodium glaucum* north of Woodstock, Va.
in farm yard Great Valley of Va.
near Woodstock, e Shenandoah Co
Sept. 18, 1938
growing beside H.A. Allard
5582. side sharp edged, calyx lobes not keeled.

(1) *Panicum capillaris* (L.) Nees Three Top Mt., Va.
(Has habit of an *Eragrostis*; very Massanutten Range
fine, tenacious) Shenandoah Co
Sept. 22, 1938
on shales, west slope, on
ridge at foot of Pughs Run H.A. Allard
3 miles N.E. of Woodstock, Va.
(2) Just below where we park car, in woods at foot
of shale ridge.
Eragrostis capillaris (L.) Nees. ditto
(green panicles: very tenacious)
growing near # 5596, in thin woods
on shale slope.

5598 Moss
(1) on rocks near crest of Three Top ditto
mountain above shale ridges south
where we park. This in rock slide zone
in heavy woods in ravine.

5599 Moss
(1) Near # 5598: woods. ditto

Moss Three Top Mt., Va
on rocks well up Shenandoah Co
west slope of Three Top Massanutten Range
5600 near boulder slides Sept. 22, 1938
occurs in above shale H.A. Allard.
(1) In woods in shallow, damp ravine.

5601 Liriodendron?
(1) Growing with # 5600 ditto

5602 Moss
(1) Growing on rocks in same ditto
wooded ravine with # 5600

5603 Liriodendron
(1) On rocks near # 5600 ditto

5604 Moss
(1) On rocks near # 5600 ditto

5605 Moss
(1) on rocks with # 5600 ditto

5606 *Solidago bicolor* L (form) e ditto
(1) on shales very steep near
foot of Three Top Mt., where I fell
down slope suffering severe lacerations
of left palm (with Dr. H. J. Herrmann)
abundant, full bloom. a nearly glabrous form)

Solidago ~~laevigata~~ ^{erecta} Pursh. Three Top Mt., Va
on steep shale at foot of Massanutten Range
of west slope of Three Top Mt., Shenandoah Co
Va. here I fell Sept. 22, 1938
with Dr. H. J. Hermann H. G. Allard
(2) abundant beside # 5606; full bloom
erecta according to S. T. Blake 9-28-38.

5608 *Muhlenbergia siliifera* (Muhl.) Trin. e
" In woods at foot of shale slope ditto
below where I fell

5609 *Helianthus autumnalis* L ditto
" In flood plain of North Fork of
Shenandoah River, near foot of shale
where I fell, and just east of farm yard
where we parked on Pugh's Run Road.
abundant; full bloom.

5610 *Eupatorium verticillifolium*
" In flood plain var. *villifolium* Fernald ditto
abundant here; full bloom: all with hairy
stems mostly. High up on rock slides some
are of typical form, i.e. glabrous or glabrate.

5611 *Cuscuta* on *Solidago altissima*
" Growing with # 5609 ditto
- *C. gomorii* Willd.

5612 *Galium pilosum* Ait e ditto
" On shales (unwooded) near
top of shale slope where lilacs
were found, and shale ledges outcrop
3 mi. N. E. of Woodstock: common in
woods.

5613 *Eragrostis capillaris* (L.) Nees.
" On shales at foot of ridge e ditto
near path leading past door yard east,
where we parked.

Rubus laciniatus Willd. Three Top Mt., Va
with fruit, large, Massanutten Range
Sweet. Shenandoah Co
Sept. 22, 1938

5614 In ravine at H. G. Allard
(1) foot of shale slope e
along road way in pasture east of
where we parked. My first acquaintance
with this blackberry. Rare; seemingly
more or less evergreen.

5615 *Calamagrostis purteri* (Gray) Gray
" In rocky woods near top ditto
of main ridge above rock slides
occurs. Not common: passing e

5616 *Lespedeza repens* Benth. ditto
" At foot of shale slope near
5614: abundant: prostrate, e
covering thin soils in pasture here.

5617 *Digitaria filiformis* (L.) Roel ditto
" On shales at foot of slope with
5616: abundant here. e

5618 *Panicum capillare* L ditto
" Growing with # 5617.
Resembles an *Eragrostis* in habit. e
Very delicate, ternate.
5618A: *Panicum philadelphicum* Bernh.

5619 Labiate.
" growing with # 5614 e ditto
Scutellaria ovata Muhl. (Wood) Ehl.

5620 *Perilla frutescens* (L.) Britton e ditto
" Growing near # 5614:
very abundant in damp thicket wooded
ravine here.

Euphorbia
on slope at foot of
slope in thin woods
5621 near # 5614:
(4) scattered in grass and low herbage
here,
Poirsettia dentata (Michx.) Small e

Three Top Mountain, Va
Massanutten Range,
Shenandoah Co.,
Sept. 22, 1938
H.G. Allard.

5622 *Acalypha virginica* L.
(2) Growing with # 5621 e

5623 *Solidago bootii* Hook
(2) all over steep slopes
at foot of Three Top Mountain just
east of farm house where we park,
3 miles N.E. of Woodstock, Va.
5624 abundant; just in bloom.

(3) *Artemisia annua* L.
growing along with fork of Shenandoah
on flood plain with # 5609: abundant:
full bloom here.

5625 *Lepedeza sericea*
(3) In old field on
highway # 55: scattered; full bloom.
Near Red Oak Mt., Va
Fauquier Co.,
Sept. 22, 1938 e
H.G. Allard.
(introduced) = *L. cuneata* D. Don.

5626 *Helianthus angustifolius* L.
(6) (full bloom)
My first record for Va.
Near Merrifield, Va
Fairfax Co.,
Daisy shot by roadside

5627 *Vitis bicolor* DeCorte
(3) on rock slide
near top of Three Top,
west slope, abundant.
first with bloom, pleasant.
Three Top Mt., Va
Massanutten Range
Shenandoah Co.
Sept. 22, 1938
H.G. Allard.

Bidens aristosa
near downwardly, parked
by roadside on Triassic,
5628 very showy: passing
(5) var. *fitcheyi* Ternald, e

Bull Run Mt., Va
Loudoun Co.,
near Chantilly, Va
Sept. 25, 1938
H.G. Allard.

5629 *Pilea pumila* (L.) G. Gray.
(3) In woods back of
John Gaspin's home, N.E. of Round Knob.
Heavy woods on west slope.
abundant: full bloom etc, e

5630 *Elephantopus carolinianus* Willd
(#) In moist woods with # 5629 ditto
(5) Full bloom: abundant here. e

5631 *Galinsoga parviflora*
(5) var. *ciliata* (Raf.) Blake ditto
In old field near barn of
John Gaspin: abundant: full bloom. e

5632 *Alycia polygonoides* Raf.
(1) Growing with # 5629 in
open in woods: abundant;
passing ditto e

5633 *Muhlenbergia subulifera* (Muhl.) Trin.
(3) In woods near # 5630. ditto e

5634 *Lepedeza stipulacea* Moench.
(3) In old field on east slope and
in valley east of Gaspin's ridge e
between entrance and Gaspin's Ridge.
very abundant.

Lespedeza striata (Thunb.) H & A Bull Run Mt., Va
Fauquier Co
Sept. 25, 1938
H. A. Allard
5635 In valley between
Gaskins' ridge and
easternmost ridge.
directly east of Gaskins'. in waste ground,
abundant covering ground.

5636 *Solidago altissima* L ditto
(3) In old field near # 5635.
abundant; full bloom.
6 ft tall or more.

5637 *Lesseria angustoides* (L.) Sm.
(3) And brook in valley beyond
(east) of Gaskins' place; i.e. between
his ridge and the high easternmost ridge.
abundant here; a tangle of decumbent
stems.

5638 *Carpinus caroliniana* Walt ditto
(1) In swampy woods between
Gaskins' ridge and easternmost ridge -
directly east from his home 6 miles S. of Albé.

5639 *Meibomia dillenii* Darb ditto
(1) In *Desmodium*
same swamp with # 5638

5640 *Muhlenbergia ~~sp.~~* ditto
(2) In old field near beyond and east
of # 5638, near giant white oak tree
where we ate lunch. Dense stands
here. = *M. schreberi* var. *palustris* (Scribn.) Scribn.

5641 *Eupatorium coelestinum* L. ditto
(3) In low ground meadow in
valley just south of # 5638 on edge
of woods. Abundant; fl. rich violet,
very showy.

Dryopteris ~~chintoniana~~ Bull Run Mt., Va
Fauquier Co
Sept. 25, 1938
H. A. Allard
5642 In swamp just beyond
swamp where # 5641 grew.
= *D. goldiana* (Hook.) Max

5643 *Agrostis perennans* (Walt.) Tuckerm ditto
(1) In woods near sandpiper
heap just bordering swamp
where # 5641 grew: scattered,

5644 *Quercus coccinea* Michx. ditto
(4) In small woods near
5642, in small isolated
grove in pasture here.
Acorns shedding now.

5645 *Quercus prinus* L. ditto
(3) Growing beside # 5644.
Most abundant oak in area.
Acorns shedding now.

5646 *Pinus pungens* Lamb. ditto
(3) at top of ridge. Three Top Mt., Va
Massanutten Range,
beyond shale ridges. Shenandoah Co
Sept 22, 1938
Large tree. H. A. Allard
(This out of date order by mistake)

5647 *Aster cordifolius* L. ditto
(3) on damp bank along North Fork
of Shenandoah R. of tree in park at
end of Pughs Run Road. Abundant; full
bloom: (rare blue) Hemlocks abundant here.
(near old summer cabins)

5648 *Agrostis* ditto
(1) Growing on wet slope near
5647, in old road.
Agrostis perennans (Walt.) Tuck.

Cladonia (branched) * Three Top Mountain, Va.
+ moss Massanutten Range,
on soil on rocks Sheppard Co.
5649 near top, west slope. Oct. 2, 1938
H.A. Allard.

5650 *Solidago rostrata* Hook. (16) ditto
(9) on steep shale hill at foot of Pugh's Run road off U.S. 211. abundant on barren shale hill: passing Roper 3 miles N.E. of Woodstock. Oct. 6, 1938.

5651 *Vitis cordifolia* Michx. (3) on shale by roadside near where we parked car. 3 miles N.E. of Woodstock. Fruit black, ditto shimmering, very acid at end of Pugh's Run road near farm house.

5652 *Solidago bicolor* L. (3) on shale (steep part) with # 5650; abundant: rays cream full bloom. ditto

5653 *Liatris scariosa* Willd. (2) on shale near edge of woods at flatter portion above steep slopes where woods begin: full bloom: not abundant. ditto

5654 *Celastrus scandens* L. (4) on top of rocky ridge proper 3 miles N.E. of Woodstock. abundant: full fruit; leaves yellowing, falling. ditto

5655 *Solidago caesia* L. (5) Growing with # 5654 full bloom, very beautiful, fresh: one of our latest golden rods; abundant ditto

America coccinea Wang. Three Top Mt., Va. Massanutten Range, Sheppard Co. Growing on west slope, 3 miles N.E. of Woodstock, abundant. Oct. 2, 1938
5656 This very small, long fruit below. H.A. Allard.
(5)

5657 *Solidago bicolor* L. Bull Run Mt., Va. Prince William Co. Road side, Hagerell Gap. Oct. 5, 1938. just west of Antioch, Va. Hagerell Gap. full bloom; abundant. H.A. Allard.

5658 *Panicum philadelphicum* Bernh. ^{ant} in corn field, Tangier Co. just south of Mrs. Cox's house, west slope, north of Hagerell Gap. nearly mature.

5659 *Aristida oligantha* Michx. (1) Roadside below High Point (west) Tangier Co. on west slope: abundant; (mistakenly cast) ditto

5660 *Panicum gottlingeri* Nash in corn field with # 5658. Tangier Co. abundant last year: uncommon this year in same field. mature: flowers falling. ditto

5661 *Acalypha gracilens* ^{virginica} L. (1) Growing in old cornfield (of 1937) near stream & road just below (west) of white rocks: very abundant! seeds black, smooth. ditto

5662 *Panicum philadelphicum* Bernh. (2) Growing beside # 5661, here abundant in this old cornfield. Tangier Co. ditto

Aster purpureus L

Bull Run Mt., Va
Fauquier Co.
North of Hagerell Gap, Va
Oct. 5, 1938
H.A. Allard

1. rays bright blue
5663 By roadside at stream
and bridge below Harty Forks.
(3) when car was parked.
very abundant, showy
(leaves toothed) bracts loose

5664 *Solidago altissima*
var. *missouriensis* Mill. Ditto
(1) near Harris place east
in valley by old cherry tree.
abundant; full bloom

5665 *Prenanthes serotina* Pursh
(2) along road just
north of Hagerell Gap, in
interior valley road to Mrs. Ashby's.
full bloom; common.

5666 *Solidago graminifolia*
var. *multiflora* Greene
(2) var. *multiflora* var. *multiflora* Ditto
In old field near Allen's house
west of Ashby's place, north of Hagerell Gap,
where umbels dried. Abundant; full bloom.

5667 *Eupatorium hyssopifolium* L
(1) In same field with # 5666
abundant here; full bloom.
Rare elsewhere in Bull Run, Prince William Co.

5668 *Panicum claudatum* L
(1) Near # 5667 - south of Allen's
house (colored) in old field. ditto
Prince William Co.

5669 *Asplenium* cf. *filiforme* L. (1) ditto
(3) In old field just west of
Allen's cabin near
chestnut tree spring.
abundant.

Aristida dichotoma Mill. Bull Run Mt., Va
dry. Y. Prince William Co.
In old field near
Oct. 5, 1938
H.A. Allard.

5670 *Allen's cabin* - is
(2) with # 5669.
very abundant in
thin soil; moist, purplish
cast.

5671 *Panicum agrostoides* Spreng. ditto
(1) abundant - nearly past -
in moist spot just south of
Allen's cabin - near # 5670

5672 *Eragrostis putinaea* (Michx.) Nees
(1) In old field near
5670; abundant;
now showing purplish.

5673 *Prenanthes trifoliata*
var. *virginiana* Pursh. ditto
(1) Roadside west of deep cut
west of Antioch & mile on Hagerell Gap
road; full bloom.

5674 *Bidens vulgata* Greene
(1) In moist soil by roadside
beside # 5673.
abundant.

5675 *Linum*
(1) In old field near
5670. ditto
abundant; past flower.
Cathartolimon virginianum (L.) Reichenb.

5676 *Panicum*
(1) Roadside opposite
Castell's
= *P. dichotomiflorum* Michx. Bull Run Mt., Va
Fauquier Co.
Hagerell Gap, Va.
Oct. 9, 1938
H.A. Allard.

Panicum capillare L. Bull. Run Mt., Va.
Fauquier Co.
In open near
Castillo's quarry at H.G. Allard
5677 Haperell Gap
(purple panicles)
Oct. 9, 1938

5678 *Eupatorium aromaticum* L. ditto
Edge of woods at upper edge of high
wooded edge field near Small's Oak.
Smith of Haperell Gap.
a colony here: full bloom.

5679 *Eupatorium altissimum* L. ditto
(2) woods of west slope below
High Point. Full bloom

5680 *Eragrostis capillaris* (L.) Nees. ditto
(3) open ground near Castillo's
quarry (flagstone) - ie with # 5677.
abundant: purple panicles.

5681 *Erechtites hieracifolia* (L.) Raf. ditto
(1) abundant near above quarry
- ie near # 5677: full bloom,
ad mixed with silvery hairs also.
very common.

5682 *Aster patens* Nutt. ditto
(1) woods below High Point -
near # 5679.
abundant: full bloom: beautiful
blue flowers on all ridges.

5683 *Gentiana villosa* L. ditto
(2) woods below High Point
near # 5679.
full bloom: corolla greenish.

Aster undulatus L. Bull. Run Mt., Va.
Fauquier Co.
rays blue -
in thicket of old Smith of Haperell Gap
5684 field below
High Point: abundant. H.G. Allard.
Oct. 9, 1938
(2)

Physalis ixocarpa Brot. ditto
5685 in same waste field with
(2) # 5684: abundant: fruit
agreeable in flavor
(ident by C. V. Morton)

5686 *Aster paniculatus* Lam. ditto
(3) roadside near Castillo's
abundant: full bloom; rays
pale blue.

5687 *Muhlenbergia schreberi* Griseb. ditto
(2) in damp small (open)
area *Lechisia angustoides* smooth
grass - ie near old Black Walnut
tree just west of Haperell - Broad Run
Station highway: abundant.

5688 *Prunus rigida* forma *globosa* Allard ditto
(1) in old field south of Haperell Gap.
See photos. I have named this
forma *globosa*. A very beautiful
even growing, rounded
tree.

5689 *Aster puniceus* L. ditto
(1) open low ground near # 5688
very abundant: full bloom.

5690 *Aster lateriflorus* (L.) Britton ditto
(3) in old field just south of
Haperell Gap near old Riley Cabin.
Rays reddish purplish: abundant.

Eupatorium aromaticum L. Bull Run Mt., Va.
Fauquier Co.
Edge of woods Oct. 9, 1938
at upper limit H.G. Allard
5691 of high brown edge, South of Hopewell Gap.
(3) near small oak field
a large colony here: full bloom.

5692 *Solidago ulmifolia* Muhl. ditto
(1) In woods near # 5691
full bloom.

5693 *Lespedeza virginica* (L.) Britton ditto
(1) In high brown edge field
beyond Riley cabin (1937)
abundant in three stands of
A. scoparium here.

5694 *Lespedeza procumbens* (L.) Britton ditto
(1) Growing in same brown edge
field with # 5693.
scattered here: less abundant
than # 5693 as grass is taller.

5695 *Panicum gottingeri* Nash. ditto
(1) In high brown edge
field near # 5693, where
thin stand of *Andropogon scoparium*.

5696 *Andropogon scoparium* Michx. ditto
(3) In old field near where
Riley's lived 1937. (beyond Costello's.)

5697 *Aster pilosus* var. *demotus* Blake ditto
(2) In Costello's old field planted
1936 - where *crucifera* is.
Full bloom: very abundant.

Aster paniculatus Lam. Bull Run Mt., Va.
Fauquier Co.
In Costello's old field. Oct. 9, 1938
near # 5697: abundant.
5698 full bloom. Smith of Hopewell Gap.
(1)

5699 *Aster lateri florus* (L.) Britton ditto
(2) In old field near Riley's
cabin (1937): abundant here.
full bloom: rays reddish pinkish.

5700 *Aster paniculatus* Lam. ditto
(3) By roadside between
Costello's & Omer's properties.
rays bluish: full bloom.

5701 *Aster pilosus* var. *demotus* Blake ditto
(1) Growing near # 5699.
Very abundant.

5702 *Aster paniculatus* Lam. ditto
(1) By roadside near # 5700.

5703 *Digitaria inchoerum* (Schreb.) Muhl. ditto
(1) In roadway descending
past Costello's flagstone quarry.
Spikes very little prominent.

5704 *Vitis cordifolia* Michx. ditto
(2) On cliffs of High Point:
abundant: full bloom.
fruit black without bloom, very acid.
leaves broad.

Vitis aestivalis Michx. Bull Run Mt., Va
woods below High Point Tranquien Co
near Hagerell Gap. south of Hagerell Gap.
5705 Broad Run Sta. highway H.A. Allard
fruit black with Oct. 9, 1938
brown agreeable.

#5606-#5707 collected Oct. 13, 1938 at Bull Run Mt., Va.

5706 *Solidago bicolor* L. with deep yellow rays. This plant appeared in a progeny from a normal cream-rayed plant from Big Cottle Mt., Tranquien Co., Va. 1937. seed sown in flat outside 11-15-37. To wall house 12-15-37. By 1-12-38. To trough 3-15-38. To wall house 5-25-38. Pollen 9-22-38. at 28 in.

5707 *Solidago bicolor* L. with typical cream-colored rays. Sister plant in same progeny with #5706. and growing in field first transplanted May 25, 1938. Pollen 9-22-38. This plant from Big Cottle is designated as A. L.

5708 *Solidago bicolor* with yellow rays. appearing in a progeny of a normal cream-rayed plant of *S. bicolor* designated as B. found on Big Cottle Hill of 1937. Sown in flat, with frame 11-15-37. To wall house 12-15-37. By 1-12-38. To hail & tests 5-4-38. When rootlets 2 in. across. This was 14 hours dry. Pollen 8-29-38. at 23 2 in. Both parents A & B found on Big Cottle. (Normal *S. bicolor* kept in ray color)

5709 a cream-rayed plant of *S. bicolor* appearing in a progeny from a plant (B) found on Big Cottle 1937. Sown etc. as for #5708. This plant (#5709) a sister plant to #5708. This a control. Pollen 9-22 at 28 in. collected Oct. 13, 1938. H.A. Allard

5710 *Solidago bicolor* L. rays white. Big Cottle Mt., Va. Tranquien Co. on crest of mt. along road, and slopes road road west of Marshall, Va. on west slope; abundant. Oct. 10, 1938 H.A. Allard.

5711 *Solidago bicolor* L. a form (rays yellow) abundant with #5710 on top of same road road on west slope, often intermingled closely. should be recognized as distinct from true *bicolor*.

Mass on outcropping granitic ridges of west slope. 5712

Big Cottle Mt., Va. Tranquien Co. west of Marshall. Oct. 16, 1938. H.A. Allard

5713 *Solidago squarrosa* Muhl. ditto on top along road road. Occasional; full bloom. Not found below top in heavy woods.

5714 *Eupatorium alticaefolium* Reid ditto on wooded slope well up and on top; abundant; full bloom.

5715 *Chrysanthemum leucanthemum* Bull Run Mt., Va. in Castell's field near Hagerell Gap. Tranquien Co. (1) stone under site. a tiny seedling plant 3 1/2 in. tall, with head scarcely 1/2 in. across, 5-6 dimorphic rays; leaves very tiny; old full-sized plants umbels in flower; also yellow butter (best yellow).

5716 *Cladonia* (red heads) Bull Run Mt., Va. Tranquien Co. on soil on Castell's quarry ridge in chestnut oak woods - some *Prunus virginiana* abundant. = *C. cristatella* f. *vestita* Tuck. Dec. 11, 1938 south of Hagerell Gap H.A. Allard.

5717 *Cladonia mitrula* f. *imbricatula* (Nyl.) Nyl. ditto (cream-colored heads) on soil with #5716

5718 *Cladonia* sp. ditto on soil with #5716 (sterile, not determinable)

Cladonia strepsilis (Ach.) Nais
 fine foliose type as in C. apodocarpa
 but finer; abundant
 Bull Run NT, VA
 Fanger Co.
 Smith of Hagerell Gap
 Dec. 11, 1938
 H. A. Allard
 5719 On soil on Castell's quarry
 abundant on bare humus ridge.
 5719 a. In thin chestnut oak woods
 with some pine; dry, burned years ago;
 much naked sandy soil
 Cladonia caespiticia (Pers.) T. Loebl
 Cladonia

5720 (1) Same loc. with # 5719 ditto

= C. cristatella f. Beauvoisii (Del.) Nais,
 & S. vestita Tuck.

5721 Cladonia
 (1) Growing with # 5719 ditto

5722 Cladonia
 (1) In same loc. with # 5719 ditto
 = C. pleurota (T. Loebl) Schaer.

5723 Lichens
 (1) On cliffs of Castell's quarry ridge;
 on rock surfaces; fine black dots
 abundant. ditto

5724 Lichens = Umbilicaria caroliniana Tuck
 (1) Black spots as above on
 Umbilicaria pustulata; same
 type spots as 5723: on same cliffs
 5725C = Polyptrichum juniperinum Willd.

5725 Cladonia cristatella f. vestita Tuck.
 (1) Red apothecia with very
 squamulose stipes. ditto
 Growing with # 5719 on soil
 5725a in moss Polyptrichum
 5725b = C. pleurota (T. Loebl) Schaer, probably.

Lichen:
 on rocks - a prominent species
 in circular areas; color dark
 olive green; easily
 detached; thin soil
 beneath.
 5726 = Anaptychia aquila (Ach.) Mass.

Bull Run Mt. Va
 Fanger Co
 Smith of Hagerell Gap
 on east of Castell's quarry
 ridge. 12-11-38
 H. A. Allard

5727 Cladonia glaucum (L.) Schaer.
 5727B = Lencicoryne glaucum (L.) Schaer. ditto
 (1) On soil of Castell's quarry
 ridge; abundant in chestnut oak
 woods = C. macilenta f. styriacella (Ach.) Nais.
 5727a = C. chlorophaea (T. Loebl) Schaer.
 5727b = C. pleurota (T. Loebl) Schaer.

5728 Lichen
 (1) Cladonia cristatella f. Beauvoisii (Del.) Nais
 on soil with # 5727 and E. vestita Tuck. ditto

5729 Cladonia caespiticia (Pers.) T. Loebl ditto
 (1) On soil with # 5727.

5730 Cladonia pleurota (T. Loebl) Schaer. ditto
 (1) On soil with 5727 but not very distinctive.
 What is the moss with it?
 5730a = C. cristatella Tuck.

5731 Cladonia
 (1) On soil with # 5727 ditto
 among moss. Polyptrichum =

5732 Cladonia strepsilis (Ach.) Nais. ditto
 (1) On soil near # 5727
 Tiny irregular foliose growths
 like apodocarpa with peripheral brown apothecia

- # *Cladonia*
On soil on Castilla's quarry
at top of old field stone ridge
rock cracks stood -
where spring is.
|| In dry chestnut oak woods
- *C. macilenta* f. *striatella* (Ach.) Wain.
5733a = *C. pleurota* (Floerke) Schaer.
5734 *Cladonia*
heads light cream
|| on soil with # 5733
= *C. mitrula* f. *imbricatula* (Nyl.) Wain.
5735 *Cladonia streptohia* (Ach.) Wain.
|| on soil with # 5733
(Similar to *C. afodocarpa*; finer
abundant here.)
5736 *Cladonia macilenta* f. *striatella* (Ach.) Wain.
|| on soil with # 5733
5736a = *C. pleurota* (Floerke) Schaer.
5737 *Cladonia caespiticia* (Pers.) Floerke
|| on soil with # 5733
5738 *Cladonia streptohia* (Ach.) Wain.
|| on soil with # 5733
Dense, finer than *C. afodocarpa*;
olive green.
covers considerable areas of bare soil.
5739 Lichen
|| On rock surfaces as small
black cups
abundant on Castilla's quarry cliffs
near # 5733

Bull Run Mt., Va

Tangier Co.

Dec. 11, 1938

H.A. Allard

On Castilla's quarry side

just S. of Hufschall Gap.

5733B = *Picramnia*

scutarium (L.) Hedw.

- Lichen,
Near foot of cliffs near
slope: yellowish lead gray
with pinkish cast
around edge; close
circles on rocks.
abundant.
5740
||
5741 Lichen
(small black dots on rocks)
|| (On cliffs at end of High Point)
abundant.
5742 = *Cladonia caespiticia* (Pers.) Floerke
|| On brickwork bark on tree
on Castilla's quarry ridge
5742A = *Physcia leana* Tuck.
5742B = " *adglutinata* (Floerke) Tuck.
5743 Lichen = *Parmelia rudecta* Ach.
|| On same tree with # 5742
5742C = *Caloplaca microphylla* (Tuck.) Hasse
5742D = *Physcia acetabulata* (Clem.) Nyl.
5742E = " *endochrysea* (Hampe) Nyl.
5742F = " *stellaria* (L.) Nyl.
5744 Lichen
|| On same tree with # 5742
= *Caloplaca microphylla* (Tuck.) Hasse
5745 Tiny green mass
|| in small crevices on cliff
of Castilla's quarry ridge.
Very deep green in soil
= *Gymnostomum rupestre* Schleich.
5746 Lichen
|| On same tree with 5742
= *Cladonia caespiticia* (Pers.) Floerke

Bull Run Mt., Va

Tangier Co.

High Point cliffs

Dec. 11, 1938.

H.A. Allard.

Lichen
On bark of Hickory tree
on Castell's quarry cliffs
just S. of Hagerell Gap
near spring is

Bull Run Mt. Va
Fauquier Co
Dec. 11, 1938
H.A. Allard

5747 = *Physcia setosa* (Ach.) Nyl.
5747A = }
5747B = } Both same as above,

5748 Lichen = *Cladonia caespiticia* (Pers.) Tuckerm.
|| On same tree - all well above ground
Fine green, close growth; abundant,

5749 Lichen = *Physcia lithotodes* Nyl.
|| On same tree with # 5748.
dark olive grayish green

5750 Moss
|| On same tree with # 5748
= *Platygyrium repens* (Brid.) B. & S.

5751 Lichen
|| On same tree with # 5748

5752 *Cladonia caespiticia* (Pers.) Tuckerm.
|| On bark of same tree mostly thallus
with # 5748; fine, dense, green
growth.

5753 Lichen = *Parmelia rudecta* Ach.
|| On Hickory bark on same tree
with # 5748; also on rocks, cliffs
etc.

Lichen
Small, greenish
on Hickory tree bark
just S. of Hagerell Gap

Bull Run Mt. Va
Fauquier Co
Dec. 11, 1938
H.A. Allard

5754 || On Castell's quarry ridge,
stone fine, high spring is, and
usual stone crusher was
= *Caloplaca microphyllina* (Tuck.) Hasse.

5755 Lichens (several) ditto

|| On same tree with # 5754
5755B = *Physcia stellaris* (L.) Nyl.
5755A = *Caloplaca microphyllina* (Tuck.) Hasse.
= *Parmelia aurulenta* Tuck.

5756 Lichens ditto
|| On bark of same tree
with # 5754
= *Cladonia caespiticia* (Pers.) Tuckerm.
(no podetia)

5757 *Cladonia* + moss ditto
|| On soil in dry chestnut oak
woods on Castell's quarry ridge
South of Hagerell Gap.
Red heads - Moss =
= *C. cristatella* f. *ochroleuca* = *C. cristatella* f. *beauvoisii* (Del.) Tuckerm.
= *C. cristatella* f. *beauvoisii* (Del.) Tuckerm. & *C. vestita* Tuckerm.

5758 *Cladonia* Tuckerm.
|| On Moss e ditto
same loc. with # 5757
= *C. cristatella* f. *beauvoisii* (Del.) Tuckerm. & *C. vestita* Tuckerm.

5759 Lichen
Lead gray
|| On same tree with # 5754
Two species: one smaller,
finer.

5760 Usnea-like lichen
|| On cliffs near spring S. of
Hagerell Gap, next exposure
on Castell's quarry ridge: not
common.

Umbilicaria pustulata Bull Run Mt., Va
On Castilla's quarry cliffs: Tangier Co
abundant throughout Smith of Hopewell Gap.
5761 on all cliffs Dec. 11, 1938
|| of Bull Run. On Castilla's H.A. Allard

5762 Mass Light yellowish green ditto
|| On soil on Castilla's quarry ridge in chestnut oak woods. abundant here etc

5763 Liverwort ditto
|| On sloping rock surface with thin soil, forming extensive mats on rocks with lichens etc. Has succeeded there; washed off portions of mat on ground also.

5764 Mass Hyphnum - fern like: yellowish green ditto
|| On flat rocks on thin black soil layer at High Point; full of lichens making mats on rocks.

5765 Porella ditto
|| (Liverwort) Dark reddish brown mats easily lifting: slight soil beneath - on flat rocks at High Point cliffs: abundant. Full of lichen succulose.)

5766 Mass (Light yellowish green) ditto
|| On soil with # 5762 abundant in banks, or where soil accumulated on rocks etc.

5767 Mass Polytichum (dark green) ditto
|| On soil in chestnut oak woods near # 5762: abundant.

Mass Bull Run Mt., Va
On flat rocks forming dense mats of pure growth: slight soil beneath. On rocks of Castilla's Quarry Ridge. (abundant) (Full of lichens) Col. rather yellowish green.)
5768 H.A. Allard Tangier Co Dec. 11, 1938

5769 Cladonia ditto
|| (Periderm, + mass Polytichum) growing in chestnut oak woods on Castilla's Quarry ridge. on soil: abundant.

5770 Mass ditto
|| Completely encircling base of a small tree with its mat and just above the dense deciduous leaf mat which it cannot grow in. On Castilla's Ridge where it joins slope of High Point ridge south.

5771 Liverwort ditto
|| On rock surface (flat) near # 5770 on same ridge near High Point ridge.

5772 C = *Cladonia verticillata* (Hoffm.) Schaer (young plants) ditto
5772b = *C. chlorophaea* (Flörke) Spreng, but *rudecta* more slender than usual.
5772 (Mass) = *C. cristatella* Tuck. The sterile ditto something like *donaldsonii*.
5772a On soil near # 5769
5772d = *Polytichum juniperinum* Willd.
= *C. cristatella* f. *scyphulifera* Sandst. P.S. Beauvoisii

5773 Lichen on sandstone Bull Run Mt., Va
rocks. Tangier Co
|| On High Point ridge outcrop. Dec. 18, 1938
Cladonia caespiticia (Pers.) Thell. H.A. Allard.
of Hopewell Gap. probably.

5774 Lichen several species ditto
|| On sandstone rocks on High Point ridge with # 5773

Lichens
several species of chert
on sandstone oaks
5775 ~~some~~ interlocking
on Castell's quarry
ridge

Bull Run Mt., Va
Fauquier Co
Dec. 18, 1938
H.A. Allard
South of Hagerell Gap.

Lichens
5776 On rocks (sandstone)
|| on outcrop on Castell's quarry
ridge ditto

5777 *Cladonia furcata* f. *cylichindrica* Evans
On vertical rock faces (sandstone)
|| in heavy oak - chestnut woods, far
along on High Point ridge outcrops.
Grows in pure colonies and so closely
attached to rocks is very difficult to remove.
(ident. by Evans) my first record here.

5778 *Cladonia neomyxa* (Ach.) Nyl.
|| on sandstone rock faces on
Castell's quarry ridge. ditto
perhaps
but
doubtful.

5779 Moss = *Dicranum flavum* Hook
|| growing in grassy crevices on
sandstone outcrops on Castell's
quarry ridge ditto

5780 *Cladonia cristatella* f. *beamsisii* Del. & Wain.
and f. *vestita* Trunk.
|| In old woods edge field ditto
N. of old mansion at foot of
High Point Ridge, west slope.
between the clumps.
(apothecia red)

5781 *Cladonia piedmontensis* Merr. perhaps
but scanty and doubtful. ditto
|| Growing with # 5780
between clumps.
5781a = *C. subcariosa* Nyl.

Cladonia piedmontensis
Growing in same
woods edge field
5782 with # 5780 (between
|| clumps
5782a = *C. subcariosa* Nyl.

Bull Run Mt., Va
Fauquier Co
Dec. 18, 1938
H.A. Allard
South of Hagerell Gap.
(train) Robbins

5783 *Cladonia subcariosa* f. *evoluta* Del. & Wain.
(brown apothecia) and f. *squamulosa* Robbins
|| Growing with # 5780
between woods edge clumps. ditto

5784 *Cladonia cristatella* f. *beamsisii* Del. & Wain.
|| with # 5780 - between
clumps and on dead stems
of old clumps that have died
(apothecia red) ditto

5785 *Cladonia verticillata* (mostly) f. *aggregata* Del. & Wain.
|| (on soil)
with # 5780 on soil
between clumps. ditto

5786 *Cladonia verticillata* f. *evoluta* Del. & Wain.
|| with # 5780, between
clumps. ditto

5787 *Cladonia cristatella* f. *beamsisii* Del. & Wain.
|| with # 5780 between
clumps in old woods edge
field. ditto
(apothecia red; podetia
very squamulose)

5788 *Cladonia cristatella* f. *ochroleuca* Trunk.
and f. *squamulosa* Robbins. ditto
|| (apothecia cream colored; a few red) freshly young
with # 5780 between clumps.

Cladonia subcariosa f. *evoluta* Bull. Run Mt., Va.
in old browned edge field ^{near} Tranquien Cr.
N. of old mansion
5789 in woods, near slope Dec. 18, 1938
below High Point. H.A. Allard
growing in interspaces South of Hagerell Gap.
between clumps
apothecia dark brown or black

5790 *Cladonia cristatella* f. *hearnoisii* (Del.) Wain ditto
apothecia red. and f. *vestita* Tuck.
with # 5789 between clumps

5791 *Cladonia cristatella* f. *hearnoisii* (Del.) Wain ditto
with # 5789 between clumps on soil and on dead
basal stems and leafage of clumps
that have died from overgrowing etc.
5791a = *C. cristatella* f. *vestita* Tuck.

5792 *Cladonia cristatella* f. *sapphulifera* Sand ditto
(apothecia red) and f. *hearnoisii* (Del.) Wain
on basal stems etc. as for # 5789 and near it
= *sapphulifera*

5793 *Cladonia verticillata* f. *evoluta* (Th. Fr.) Stein ditto
with # 5789 between clumps on soil
5793a = *C. cristatella* f. *vestita* Tuck.

5794 Mass
on sandstone rocks ditto
on Castello's quarry ridge

5795 Mass - *Sicranum florum* Hook ditto
in crevice of cliffs of sandstone in heavy oak-chestnut
woods on Castello's quarry cliffs
near # 5794

Cladonia ? Bull Run Mt., Va.
(dark olive green) Tranquien Cr.
on chestnut oak Dec. 18, 1938
5796 tree bark (lining) H.A. Allard
on Castello's quarry ridge. South of Hagerell Gap.
5796a = *C. caespiticia* (Pers.) Floerke, probably not distinct.
5796 = *Physcia setosa* (Ach.) Nyl.

5797 *Cladonia verticillata* f. *evoluta* (Th. Fr.) Stein ditto
dry interspaces in same browned edge field with # 5789
on soil
5797a = *C. subcariosa* f. *evoluta* (Th. Fr.) Stein and
f. *squamulosa* Robbins.

5798 Lichen = *Physcia setosa* (Ach.) Nyl. ditto
(dark gray)
on lining chestnut oak tree bark
on High Point ridge in heavy
oak-chestnut woods.

5799 Lichen = *Physcia setosa* (Ach.) Nyl. ditto
on bark of chestnut oak
tree lining near # 5798
5799A = *Physcia stellaris* (L.) Nyl.

5800 *Cladonia caespiticia* (Pers.) Floerke ditto
on rocks (sandstone)
on Castello's quarry ridge in
heavy oak-chestnut woods.

5801 Lichen (gray)
5801A on bark of chestnut oak tree ditto
lining near # 5798
= *Porosaria multipunctata* (Turn.) Nyl.

5802 Mass
Lichen (black) ditto
on sandstone cliff near
5800.

Lichen
On bark of living
chestnut oak tree
5803 on High Point Ridge
(1) crest.

Pertusaria pertusa (L.) Tuck.

Bull Run Mt., Va
Famgner Co
Dec. 18, 1938
H.A. Allard
South of Hagerell Gap

5804 *Cladonia horbonica* f. *cylindrica* Robbins.
(1) On outcropping sandstone
cliffs on Castello's quarry ridge ditto

5805 Moss
(1) On sandstone cliffs
interfing with # 5804 ditto

5806 Moss = *Dicranum flexuosum* Hook.
(1) In crevice on low cliff
(sandstone) outcrops on
Castello's quarry ridge ditto

5807 Lichen *Pertusaria multipunctata* (Turn.) Nyb.
(1) (gray areas)
On bark of chestnut oak trees
on High Point Ridge; one of most
abundant lichens here. ditto

5808 Lichen
(1) On sandstone cliffs
on Castello's quarry ridge.
Black and very common as
circular areas like
a soot or smudge. ditto

5809 Moss
(1) On sandstone rocks on
Castello's quarry ridge near
5808. ditto

Cladonia
In old brown edge field
with # 5789 on soil
5810 and on dead basal
(1) stems of dead
chinquapin
= *C. midmontensis* f. *lepidifera* (Wain.) Robbins.

Bull Run Mt., Va
Famgner Co
Dec. 18, 1938
H.A. Allard
South of Hagerell Gap

5811 Lichen ditto
(1) On sandstone rocks
on High Point ridge.
(light green; *Parmelia*?)

5812 Lichen = *Dermatocarpon*
(gray) *miniaturum*,
(1) On flat rocks near
High Point cliffs in
heavy oak-chestnut woods. ditto
var. *complicatum* (Wain.) J. J. J.

5813 *Cladonia* ~~maileta~~ *maileta* Hoffm. ditto
(1) several 5813a = *C. cristatella* f. *scyphulifera*
one red apothecia but not distinctive
one - slender, pointed "
on soil on Castello's quarry ridge
in heavy oak-chestnut woods.

5814 *Cladonia streptilis* (Ach.) Wain. ditto
(1) (very abundant among large areas)
On soil in thin, open oak woods
on road near Antioch, Va., on
Triassic area

5815 Lichen = *Physcia setosa* (Ach.) Nyb. ditto
(1) (gray)
on bark of dead tree
on Castello's quarry ridge
in heavy oak-chestnut woods.

5816 *Cladonia cristatella* f. *vestita* Tuck. ditto
(1) (apothecia, red)
Podetia very squamulose.
on soil with # 5815

Mass
on Castellos quarry
ridge in crevices
5817 on ^{lute}interlocking sandstone
cliffs. in heavy
oak-chestnut woods.
= *Gymnostomum rupestre* Schlecht.
Bull Run Mt., Va
Fauquier Co.,
Dec. 18, 1938
H.A. Allard
South of Hagerell Gap

5818 *Cladonia papillaria* S. molariformis ditto
(1) on soil in thin oak
woods on Triassic Area
near Antioch, Va.
Prince William Co.

5819 *Cladonia baillaris* (Ach.) Nylb.
(1) on soil in same woods ditto
near #5817

5820 Moss on
(1) sandstone rocks.
near #5817 ditto

5821 Lichen
(1) moss
on sandstone cliffs ditto
near #5817

5822 *Cladonia caespitosa* (Pers.) Thoenes ditto
(1) on bark of living Chestnut tree
on Castello's quarry ridge
near #5817.

5823 Lichen, thin foliose, black. ditto
(1) on flat rocks near
#5817.
Collema glaucescens Hoffm.

Cladonia
In old browned edge field
with #5789
5824 between clumps. ditto
(1) *C. verticillata* S. *evoluta* (Th. Fr.) Steyer
5824a *C. subcariosa* Nylb. and
C. cristatella Tuck. (Both scanty.)
Bull Run Mt., Va
Fauquier Co
Dec. 18, 1938
H.A. Allard
South of Hagerell Gap.

5825 *Cladonia* ditto
(1) on sandstone rock face
Padetia pointed, white; squamulæ
rubbed off.
C. conicraea (Flörke) Wain.
S. ceratodes (Flörke) Wain.
On rocks (sandstone) on Castello's
quarry ridge near #5817

5826 Lichen (black) ditto
(1) very common
on rock outcrop near
#5817

5827 Lichen = *Physcia setosa* (Ach.) Nylb.
(1) on bark of chestnut oak ditto
tree in heavy chestnut-oak
woods near #5825
5827a *Physcia setosa* (Ach.) Nylb.

5828 Moss ditto
(1) moss over rocks in
long fern like fronds; very
beautiful.
on sandstone rocks - on same ridge
near #5825

5829 Moss ditto
(1) on sandstone rocks
on same ridge with #5825

5830 Moss in rock crevices ditto
(1) on cliff = *Dicranum plenum* Hook
near #5825

Lichen
On bark of chestnut tree
on High Point cliffs
5831 very abundant,
whitish
H.A. Allard
Bull Run Mt., Va
Fauquier Co
Dec. 18, 1938
south of Hofferell Gap
H.A. Allard
Prunella marginata Nyl.

5832 Cladonia tenuis (Floerke) Harm.
reindeer moss ditto
in low oak woods (thin)
on Triassic area near Antietam
Prince William Co

5833 Moss
on flat rocks well along in ditto
oak-chestnut woods on Castello's
quarry ridge, on thin humus layer,
common.

5834 Moss ditto
on flat rock near # 5833

5835 Moss
Polytrichum ditto
in crevice on low cliffs at
quarry on Castello's quarry ridge.

5836 Cladonia
Reindeer moss ditto
in same old field of broomedge
S. of Hofferell Gap, in interspaces between
clumps with # 5789: abundant
(pale green)

5837 Leucobryum abridum Bull Run Mt., Va
Prince William Co
Dec. 26, 1938
H.A. Allard
+ Cladonia conoverae f. (cat)
confusing with it. On soil on
ridge east of High Point Ridge S.
of Hofferell Gap 1/2 mile in thin
woods of oak, Pinus rigida etc.
5837a Leucobryum glaucum (L.) Schimp.

Cladonia papillaria Bull Run Mt., Va
f. molariformis (Hoffm.) S. Prince William Co
growing near Dec. 26, 1938
H.A. Allard
5838 # 5837
on crest of ridge (rocky, dry) weed
with poor growth Rock chestnut, black jack,
Pinus rigida, pines, Vossia, ramillana
etc.

5839 Moss: Anomodon rostratus (Hedw.) Schimp.
on dead wood on east slope ditto
of High Point Ridge near foot
in heavy oak-chestnut, Tulip Poplar
woods.

5840 Cladonia squamosa (Scop.) Hoffm. ditto
growing near # 5838
and C. caespiticia (Pers.) Floerke.

5841 Cladonia clavulifera f. subvestita Hoffm. ditto
growing near # 5839 on roadside banks.

5842 Moss: Grimmia pilifera Beauv. ditto
on flat rock on slope
near # 5839 and Grimmia pennsylvanica Schwaeger.

5843 Moss: Dicranum flagellare Hedw. ditto
on bark of tree
near # 5839

5844 Moss: Hepatic ditto
on bark at base of tree
near # 5839
= Lophocolea heterophylla (Schrad.) Dum.

Cladonia papillaria f. *molariformis* (Hoffm.) Schaer Bull Run Mt., Va
on soil on crest of dry, wooded ridge east of Prince William Co
Dec. 26, 1938
5845 High Point Ridge, H.A. Allard.
|| S. of Hagerell Gap $\frac{1}{2}$ mile
(near # 5838)

5846 *Cladonia papillaria* f. *molariformis* ditto
|| on soil with # 5845 and f. *papillosa* (Hoffm.) Schaer
abundant.

5847 *Cladonia grayi* Mer. young plants. ditto
|| on soil on banks at foot of east slope of High Point Ridge, S. of Hagerell Gap $\frac{1}{2}$ mile in heavy oak-chestnut woods.

5848 *Cladonia papillaria* (Ehrh.) Hoffm. ditto
|| on soil near # 5845
sterile squamules probably of *C. clauilipera* Wain

5849 *Cladonia caespiticia* (Pers.) Floerke ditto
|| on bark on dead log near # 5847

5850 *Cladonia* ditto
|| on soil near # 5845

5851 *Cladonia squamosa* (Scop.) Hoffm. and *C. cristatella* Tuck. ditto
|| on soil near # 5845
Probably a mixture (a trace)

Cladonia squamosa (Scop.) Bull Run Mt., Va
On old log Prince William Co
Dec. 26, 1938
5852 near # 5845 H.A. Allard.
|| mixture probably
this but none very distinctive.

5853 *Cladonia macilenta* f. *styracella* (Ach.) Wain. ditto
|| on soil on banks near # 5847

5854 *Cladonia* ditto
|| on soil near # 5845

(very abundant over large areas on bare soil.)
5855 = *C. papillaria* f. *molariformis* (Hoffm.) Schaer
|| Mass = *Thelia asprella* (Schimp) Sull. ditto
on bark of living tree at base near # 5847

5856 Mass ditto
|| Very dark green patches adhering very closely to rock surface (sandstone), near # 5847.
a true rock species, rarely fruiting here.

5857 *Cladonia subcariosa* f. *evoluta* Wain ditto
|| near # 5845

5858 *Cladonia squamosa* (Scop.) Hoffm. ditto
|| on old, distant log decaying near # 5845

Cladonia calycantha Del. Bull Run Mt., Va
 on soil in oak-chestnut
 woods on east slope of
 High Point Ridge telus
 High Point, $\frac{1}{2}$ mile S.
 of Haverhill Gap nearby.
 Dec. 26, 1938
 H.A. Allard.
 young plants
 probably.

5860 *Cladonia papillaria* f. *molariformis* (Hoffm.) Schaer. ditto
 (1) on dead log near # 5845
 very squamulose.

5861 *Cladonia coniocraea* f. *ceratodes* (Laerke) Wain. ditto
 (1) on soil on ridge near
 # 5845

5862 *Cladonia macilenta* f. *styracella* (Ach.) Wain. ditto
 (1) on soil near # 5845

5863 *Cladonia* ditto
 (1) on soil near # 5845

5864 *Cladonia piedmontensis* f. *lepidifera* (Wain.) Hoffm. ditto
 (1) on soil near # 5845

5865 *Cladonia* ditto
 (1) on soil near # 5859

Cladonia strepsilis (Ach.) Wain. Bull Run Mt., Va
 on soil near Prince William Co.
 Dec. 26, 1938
 H.A. Allard.
 5866 # 5845
 (1)

5867 *Cladonia* on soil with # 5845 ditto
 (1) *C. papillaria* f. *molariformis* (Hoffm.) Schaer

5868 *Cladonia piedmontensis* f. *lepidifera* (Wain.) Hoffm. ditto
 (1) on east slope near # 5859

5869 *Cladonia pleurota* (Flörke) Schaer. ditto
 Near # 5859

5870 *Cladonia piedmontensis* f. *lepidifera* (Wain.) Hoffm. ditto
 (1) on dead chestnut log with
 # 5845 (same as # 5860)

5871 *Cladonia papillaria* f. *molariformis* (Hoffm.) Schaer. ditto
 (1) on soil with # 5845
C. papillaria f. *molariformis* (Hoffm.) Schaer

5872 *Cladonia grayi* Mer. ditto
 (1) on soil near # 5845

- Cladonia. Bull Run Mt., Va
On soil on road side Prince William Co.,
banks at foot of Dec. 26, 1938
5873 High Point Ridge H.A. Allard
|| east slope, $\frac{1}{2}$ mile S. of Hagerell Gap,
in oaks - chestnut woods
= Cladonia strepsilis (Ach.) Vain. - thallus.
The cups are pleurota (Floerke) Schaer.
- 5874 Cladonia
|| on soil in oaks - chestnut woods on dry crest of ridge east of High Point Ridge $\frac{1}{2}$ mile S. of Hagerell Gap.
- C. hapiilaria f. molariformis (Hoffm.) Schaer. (near # 5875)
5875 = Cladonia hapiilaria f. hapiilaria ditto
|| Near # 5875
- 5876 Cladonia nidmontensis f. lepidifera (Müll.) R. H. Smith
|| On dead wood (log) on ridge near # 5875
- 5877 Cladonia strepsilis (Ach.) Vain.
|| on soil near # 5875
- 5878 Cladonia cristatella Tuck.
|| (red apothecia) on dead wood near # 5875
+ C. squamosa (Scop.) Hoffm.
- 5879 Cladonia caespiticia (Pers.) Floerke
|| on dead wood and humus soil on east slope of High Point Ridge near # 5873
a mixture but largely this.

- Cladonia Bull Run Mt., Va
with moss Polytrichum Prince William Co.,
Dec. 26, 1938
H.A. Allard.
- 5880
|| on soil near # 5874
- 5881 Peltigera horizontalis (Huds.) Baumg.
|| on soil on rocks near # 5873 ditto
- 5882 Cladonia squamosa (Scop.) Hoffm.
|| on soil near # 5874 ditto
- 5883 Moss
|| On bark of tree on same ridge and near # 5874 ditto
- 5884 Cladonia coniocraea f. truncata (Floerke) Vain.
|| very pointed, with whitish tips on soil on rocks near # 5874 ditto
- 5885 Cladonia mitrula f. intricatula (Kyl.) Vain.
|| on bare soil on same ridge with # 5874 ditto
- 5886 Cladonia coniocraea f. eratodes (Floerke) Vain.
|| on soil in pine woods on ridge crest with # 5874 ditto

Moss

at foot of tree
on ridge east of

Bull Run Mt., Va
Prince William Co.

Dec. 26, 1938

H.A. Allard

5887 High Point Bridge

|| s. of Hofsell Gap 1/2 mile

in oak-chestnut woods

very dry rocky ridge, an old burn
with little humus.

5888 *Cladonia squamosa* (Scop.) Hoffm. ditto
|| on soil near # 5887
Not very distinctive.

5889 *Cladonia Lophocolea heterophylla* (Scop.) Th. & M. ditto
|| Hepatic Moss
on bark of tree near # 5887
mostly.

5890 *Cladonia* (a) *squamosa* (Scop.) Hoffm. ditto
|| on west slope of ridge below
cliffs on same ridge near
5887 - on old chestnut log.
same as # 5860 & 5870 (see)

5891 *Cladonia caespiticia* (Pers.) Th. & M. ditto
|| on soil near # 5887

5892 *Cladonia*
|| sharp-pointed, whitish tips ditto
||| On bark of decayed
log (same as # 5884).

5893 *Cladonia squamosa* (Scop.) Hoffm. ditto
|| on soil, on same
ridge with # 5887

Cladonia

on same ridge

5894 near # 5887

|| *C. squamosa* (Scop.) Hoffm. but not very
distinctive.

5895 *Cladonia grayi* Mez. ditto
|| on same ridge near
5887

5896 *Psoralea rosea* Pers. ditto
|| on bare soil on crest of castle's
granary ridge near spring; very
abundant in woods above bare areas
of soil here.

5897 *Cladonia coniocraea* f. *ceratodes* (Th. & M.) Kain. ditto
|| sharp pointed apothecia with
whitish tips, same as # 5892
5897a = *Cladonia mitrula* f. *imbricatula* (Hyl.) Kain.
(young)

5898 *Cladonia*
|| sharp pointed apothecia with
whitish tips (same as # 5892,
5897. = *C. coniocraea* f. *ceratodes* (Th. & M.) Kain.

5899 Lichen ditto
|| Pine colonies of small
black dots on sandstone
rocks. Very tiny to
beak dots size of pin head
very abundant on ridge near # 5887

5900 Moss ditto
|| on thin soil on flat rocks on east
slope of High Point Ridge in heavy
oak-chestnut woods below High Point.
These mats lift off readily.

Lichen
Peltigera

Bull Run Mt., Va
Prince William Co
Dec. 26, 1938
H.A. Allard.

- 5901 on east slope of
High Point Ridge
below High Point
on soil in heavy oak-chestnut woods.
(abundant)

- 5902 Moss
on flat rocks near # 5901. ditto
forming large, pure mats easily
detached, often loosely lifting
up from the rocks; color dark green
(abundant)

- 5903 Moss
forming extensive mats (this)
on rocks, banks etc. in woods near # 5901. ditto
light yellowish green; abundant

- 5904 Moss
Polytrichum
on flat rocks near # 5901. ditto
on banks, rotten wood, rocks forming
large, pure colonies; abundant.

- 5905 Moss *Hypnum*
on flat rocks near # 5901. ditto
abundant on banks etc in woods;
color yellowish green; fronds fern-like.
Very beautiful; abundant.

- 5906 Moss
Catharina?
on rocks near # 5901. ditto
color light shining green; leaves delicate.
abundant in damp places, rocks etc.

- 5907 Mosses
Two
on dead wood on old logs
in woods near # 5901. ditto

Moss on dead log
in woods near # 5901

5908

abundant.

Bull Run Mt., Va
Prince William Co
Dec. 26, 1938
H.A. Allard.

- 5909 Moss
on dead stump in woods near # 5908. ditto

- 5910 Moss
on decayed log in woods near # 5901. ditto

- 5911 *Cladonia*
one of reindeer mosses.
on crest of ridge east of High Point
ridge $\frac{1}{2}$ mi. S. of Haysville Gap. in
thin pine stand here = *P. rigida*,
and *P. marginata* mostly. ditto

- 5912 *Cladonia rangiferina*
Growing beside # 5911. Not
common in Bull Run Mt.; very
local. on pine duff and bark
soil here. This specimen was found.
(My first record for Bull Run Mt.) ditto

- 5913 *Cladonia*
(reindeer moss)
growing with # 5912
abundant. ditto

- 5914 *Cladonia rangiferina*
growing with # 5912. ditto

Cladonia bailliana (Ach.) Nyl. Bull Run Mt., VA
on rotten wood
on ridge N.E. of Beverly Mill, January 1, 1939
east of valley road
just N. of railroad. Prince William Co.
H.A. Allard

5915 a thin pine stand
of *Pinus virginiana* here. Harker
lived not much bare soil covered with
lichens - *Cladonia*, tiny red *apothecia*
at tip of recurved British scrobiculate podetia

5916 *Cladonia grayi* f. *squamulosa* Sandst. ditto
on soil near # 5915
cupae, very proliferous, very squamulose

5917 *Cladonia cristatella* Tuck. ditto
apothecia red
on soil with # 5915

5917A: *C. grayi* f. *squamulosa* Sandst. main

5918 *Cladonia mailevta* f. *styracella* (Ach.) K. & P. ditto
same sh as # 5915.
on old log with it
and *C. conicraea* (Floerke) Sandst. K- and P-

5919 *Cladonia grayi* f. *squamulosa* Sandst. ditto
on soil with # 5915

5920 *Cladonia cristatella* Tuck. ditto
apothecia red
podetia very squamulose
on humus soil near # 5915

5921 *Cladonia verticillata* f. *phyllocephala* (Thot.) Olin. ditto
on soil near # 5915

Cladonia grayi Mer.
same cups, very
squamulose.

5922 same with brown apothecia
on soil near # 5915

5923 *Cladonia verticillata* f. *phyllocephala* (Thot.) Olin. ditto
same cups, very squamulose
some with brown apothecia
with # 5915
and *C. grayi* f. *squamulosa* Sandst.

5924 *Cladonia squamosa* (Scop.) Haffner. ditto
but not distinctive
near # 5915 on soil

5924a: *C. subcariosa* f. *squamulosa* Hoffm.

5925 *Cladonia verticillata* f. *phyllocephala* (Thot.) Olin. ditto
same as # 5924
near # 5915

5926 *Cladonia cristatella* f. *vestita* Tuck. ditto
apothecia red
podetia much branched above
growing near # 5915

5927 *Cladonia verticillata* f. *phyllocephala* (Thot.) Olin. ditto
apothecia brown
podetia very squamulose
near # 5915
5927a: *C. cristatella* f. *vestita* Tuck. mostly

5928 *Cladonia*
podetia slender curved at tip
whitish
near # 5915
mailevta f. *styracella* (Ach.) K. & P.

Cladonia strepsilis (Ach.) Wain. Bull Run Mt., Va
on soil
In pine grove on
ridge just N. of mill road Prince William Co
ad. east of valley H.A. Allard.
5929 road here - below (E of Beverly Mill)
|| apothecia brown; podetia very squamulose

5930 *Cladonia strepsilis* (Ach.) Wain. ditto
|| apothecia brown
(very squamulose)
on soil near # 5929.

5931 *Cladonia verticillata* f. *thylocephala* (Flörke) Olin. ditto
|| very proliferous
apothecia brown
on soil near # 5929

5932 *Cladonia papillaria* f. *stipitata* Thöerke ditto
|| on soil near # 5929

5933 *Cladonia baillaris* (Ach.) Nyl. P. and *Cladonia* ditto
|| on rotten wood near # 5929
← *conivraea* (Thöerke) Sandst. P+

5934 *Cladonia maileuta* f. *styracella* (Ach.) Wain. ditto
|| on humus soil near # 5929

5935 *Cladonia strepsilis* (Ach.) Wain. ditto
|| on soil near # 5929.

Cladonia clavulifera Bull Run Mt., Va
on humus soil
near # 5929
5936
||
f. *subvestita* Robbins

5937 *Cladonia clavulifera* f. *indicanlis* Evans ditto
|| (apothecia brown)
on soil near # 5929
mostly

5938 *Cladonia subcariosa* Nyl ditto
|| mostly *podocarpa*?
on soil near # 5929

5939 *Cladonia clavulifera* f. *subvestita* Robbins ditto
|| on soil near # 5929
|| apothecia brown
(podetia very squamulose)

5939A: *C. subcariosa* Nyl. ditto
|| Moss
on dead wood near # 5929

5941 *Cladonia cristatella* f. *vestita* Nyl. ditto
|| apothecia red
podetia (some squamulose)
near # 5929
f. *beauvoisii* (Flörke) Wain.

5941A: *C. maileuta* f. *styracella* (Ach.) Wain. ditto
5942 *Cladonia grayi* Mer. ditto
|| on soil near # 5929

Cladonia
In pine grove just N. of
railroad blm (E) of
Borerly Mill rd
5943 E of valley road here.
(1) on soil
= Cladonia chlorophaea f. lepidophylla (Therke) Sandst (P+)
and C. grayi f. squamulosa Sandst

Bull Run Mt., Va
January 1, 1939
Prince William Co
H.A. Allard

5944 → Cladonia cristatella f. vestita Tuck. ditto
apothecia red
(1) + one with cups
5944A, podetia branched above (with red
and 6 apothecia)
= C. grayi f. simple Robbins

5945 Cladonia grayi f. simple Robbins ditto
(1) on humus soil cups
Near # 5943
and C. grayi f. squamulosa Sandst.

5946 Cladonia chlorophaea f. carpathica (Therke) ditto
(1) on humus soil with # 5943 (Therke)

5947 Cladonia verticillata f. phyllocephala (Therke) ditto
(1) verticillata and a trace of C. grayi Mer.
forma. very squamulose
Near # 5943 on soil.

5948 Cladonia grayi Mer. ditto
(1) (cups)
on humus soil near # 5943

5949 Cladonia cristatella f. vestita Tuck. ditto
(1) podetia much branched above
with tiny red apothecia,
squamules also with tiny red
apothecia.
on soil Near # 5943

Cladonia papillaria f.
papillaria

Bull Run Mt., Va
January 1, 1939
Prince William Co
H.A. Allard

5950

on soil near # 5943
(1) molariformis (Hoffm.) Schaer.
apothecia f. stipitata Therke.

5951

Cladonia verticillata f. phyllocephala (Therke) ditto
(1) verticillata
forma
Growing near # 5943
5951A = C. grayi Mer.

5952

Moss
brownish colored
(1) on dead wood near # 5943

5953

Cladonia verticillata (Hoffm.) Schaer. ditto
(1) on soil near # 5943
same sp. as # 5951
young plants

5954

Cladonia verticillata f. phyllocephala (Therke) ditto
(1) very squamulose podetia
same sp. as # 5951
growing with # 5943
mostly (Therke) Olis.

5955

Cladonia grayi Mer. mostly
(1) same sp. as # 5951
with # 5943
also large stalks of C. verticillata f. phyllocephala (Therke) Olis. present

5956

Cladonia grayi f. simple Robbins ditto
(1) cups with tiny apothecia
around edge
Near # 5943
5956A = C. grayi f. simple Robbins.
(abundant in extensive patches.)

5957: *Cladonia verticillata* S. exultans (Th. Fr.) Steiner
5957a = " *verticillata* f. *phyllocephala* (Th. Fr.) Steiner
in pine grove on ridge east of valley
road just below
Bull Run Mt., Va
January 1, 1939
Prince William Co

5957 (E) of Bererley Mill H.A. Allard.
ad IV of railroad.

This extends to an old grave yard and
back grove a few hundred yards east
of old cellar site where drip pipe
stood - and large black walnut tree.

5958 *Cladonia stipitata* f. *coralloidea* (Ach.) Wain.
(1) (apothecia brown)

near # 5957 on soil on High Point ridge
near High Point in oak chestnut woods here
(very squamulose)

5959 Moss

(1) on thin humus soil on rock
shelf at High Point, north of Bererley Mill
1 1/2 mile.

5960 Hepatic: *Sclafania nemorosa* (L.) Dum.

(1) On soil in oak-chestnut woods
on east slope of High Point ridge
near Bererley Mill.

5961 *Cladonia*?

(1) crustose, yellowish green
on same rock shelf with # 5959

5962 *Cladonia*
(very squamulose)

(1) on soil with # 5960
= *Cladonia stipitata* f. *coralloidea* (Ach.) Wain.

5963 Moss or hepatic
on soil in woods on High Point
(1) ridge (east slope) near High Point
north of Bererley Mill 1 1/2 miles.
= *Sclafania nemorosa* (L.) Dum.

Cladonia
on soil with

5964 # 5959

(1) *Cladonia coniocraea* f. *ceratodes* (Flörke) Wain.

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Prince William Co

5965 Moss
(1) on rotten wood in oak
chestnut woods near High Point

5966 *Cladonia rangiferina* (L.) Reb. ditto
(1) on rock shelf with # 5959
My second record, first for High Point
see # 5912

5967 *Baeomyces* (thallus)
+ liverwort or moss
(1) = *Sclafania nemorosa* (L.) Dum.
Near # 5960

5967a = *Pertusaria pustulata* (Ach.) Duby.

5968 *Cladonia*? *Parmelia saxatilis* (L.) Ach. ditto
(1) on black humus soil
with # 5959

5969 Moss
(1) brownish /
on dead log in oak-chestnut
scrub near # 5963 -

5970 Moss
(1) on dead wood on east slope
of High Point ridge near # 5963

Cladonia

In mine gorge on ridge
1/2 mile N. of road and
1/2 mile S. of valley road
crossing trunk
1/2 mile S. of (end) of Reservey Mill

Bull Run Mt., Va
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5971 *Cladonia chlorophaea* f. *lepidophora* (Tilberke) Saccard.
(P+)

5972 *Cladonia*

1/1 on soil with # 5971

= *C. grayi* f. *simplex* Robbins. (P-)

5972a = *C. mitrula* f. *imbricatula* (Nyl.) Wain.
5972b = *C. stipitata* f. *coralloidea* (Ach.) Wain.

5973

Cladonia chlorophaea (Tilberke) Spreng. (P+)

1/1 on soil with # 5971
5973a = *C. chlorophaea* (Tilberke) Spreng. f. *grayi* Mer. (P)

= *C. verticillata* f. *phyllocephala* (Plot.) Ohis

5973a = " f. *evoluta* (Th. Fr.) Stein and f. *apotieta* (Ach.) Wain.

5974

Cladonia

5973d = *C. grayi* Mer. (P)

on soil near # 5971

= *C. verticillata* f. *evoluta* (Th. Fr.) Stein.

5974a = " f. *evoluta* (Th.) Fr. Stein.

5975

Cladonia

1/1 on soil near # 5971

= *C. grayi* f. *simplex* Robbins. (P)

5976

Cladonia

5976b = *C. verticillata* f. *phyllocephala* (Plot.) Ohis

1/1 on soil near # 5971

= *C. verticillata* f. *phyllocephala* (Plot.) Ohis

5976a = " P.P. f. *apotieta* (Ach.) Wain.

5977

Cladonia

1/1 on soil near # 5971

Cladonia

on soil near

5978 # 5971

1/1

Bull Run Mt., Va
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Prince William Co.

5979

Cladonia

1/1 on soil near # 5971

5980

Cladonia tenuis (Tilberke) Harm.

1/1 on soil near # 5971

5981

Cladonia

1/1 on soil near # 5971

5982

Cladonia
(apothecia of one sp. red)
Near # 5971

5983

Cladonia

1/1 on soil near # 5971

5984

Cladonia

1/1 on soil near # 5971

Cladonia Bull Run Mt., Va
Empire gorge just north of railroad on ridge just east of valley road crossing tracks below east of Beresley Mill.
January 1, 1939.
Prince William Co
H.A. Allard

5985 *Cladonia*
1) On soil with # 5985 ditto

5986 *Cladonia*
1) On soil near # 5985 ditto

5987 *Cladonia*
1) On soil near # 5985 ditto

5988 *Cladonia*
1) On soil near # 5985 ditto

5989 *Cladonia*
(apothecia red)
1) On soil near # 5985 ditto

5990 *Cladonia*
1) very squamulose
On soil near # 5990 ditto

5991 *Cladonia*
1) On soil near # 5985 ditto

Cladonia cristatella Bull Run Mt., Va
(apothecia red) January 1, 1939
Prince William Co
H.A. Allard.
5992
1) On soil near # 5985 and *S. leucosia* (Pol.) Vain.
and 5992 A = *C. cristatella* f. *vestita* Tuck.
5992 B = *C. chlorophaea* f. *simplex* (Hoffm.) Arn. P+
5993 *Cladonia* (the same with cups) ditto
1) on soil near # 5985

5994 *Cladonia caespiticia* (Pers.) Th. Loebl.
1) On soil near # 5985 ditto
5994 A = *C. apodocarpa* Robbins mostly.


5995 *Cladonia papillaria* f. *stipitata* Th. Loebl.
1) On soil near # 5985 ditto

5996 *Cladonia*
1) On soil near # 5985 ditto

5997 *Cladonia*
1) On soil near # 5985 ditto

5998 *Cladonia*
1) On soil near # 5985 ditto

6012 *Cladonia*
 11) on soil near X 5999 ditto

Cladonia 
in pine woods on ridge just East of
6013 of valley road where it crosses railroad near
Beverly Mill.
on soil, near #


Bull Run Mt., Va
January 1, 1939
H.G. Allard
Prince William Co

6014 Cladonia
|| on soil near # 6013
(apothecia brown)

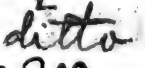
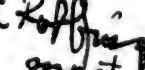
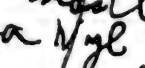
ditto

6015 Cladonia
|| on soil # 6013
(red apothecia; very squamulose)

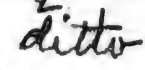
ditto

6016 Cladonia 
|| on rotten wood
near # 6013

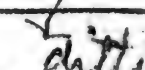
ditto

6017 Cladonia subcariosa f. squamulosa Hoffm. 
|| on soil near # 6013
6017A = C. chlorophaea (Thoenke) Spreng. var. C. 
neurata (Thoenke) Schaer (cup) and C. subcariosa Nyl. 
6017B = C. grayi Mer.

ditto

6018 Cladonia grayi f. simplex Roffm. 
|| on soil near # 6013

ditto

6019 Cladonia verticillata (Hoffm.) Schaer 
|| (apothecia red) distinctive as to form.
on soil near # 6013

ditto

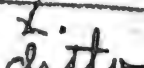
Cladonia Bull Run Mt., Va
H.G. Allard
January 1, 1939
Prince William Co

6020


||

6021 Cladonia 
|| on soil near # 6013

ditto

6022 Cladonia verticillata (Hoffm.) Schaer 
|| (apothecia brown) not distinctive as to form.
on soil near # 6013

ditto

6023 Cladonia mitrula f. intricatula (Nyl.) Raim. 
|| (apothecia brown)
on soil near # 6013


ditto

6024 Cladonia
|| on soil near # 6013

ditto

6025 Moss
|| on dead wood near # 6013

ditto

6026 ~~Moss~~ = Sclerophora nemorosa L. 
|| Hepatic. on soil near # 6013
Cladonia Mixture of lads. not def. enough to det.

ditto

Cladonia
on soil in thin pine
wood on ridge N.E. of
6027 Bererley Mill

Bull Run Mt., Va
Prince William Co
January 1, 1939
H.A. Allard

" near rail road
" this just east of valley road leading to
Hoffnell Gap below Costello's

6028 *Cladonia baillensis* (Ach.) Nyl. (podetia narrow)
" (on thin soil near # 6027 ditto
and *C. caespiticia* (Pers.) Thöerke. mostly

6029 Moss
" on soil and rotten wood ditto
with # 6027

6030 *Cladonia verticillata* (Hoffm.) Schaer. ditto
" on soil near # 6027 distinct as to form,

6031 *Cladonia*
" on soil near # 6027 ditto

6032 *Cladonia*
" on soil near # 6027 ditto

6033 *Cladonia incialis* (L.) Web.
~~reindeer moss~~
" (hectarian, low, compact)
" on rock shelf at High Point
just below highest outcrop.
(with # 5959) *Cladonia incialis* (L.) Web.
(appears different from others in Bull Run Mt.,

Peltigera (lichen)
on ground and rotten
wood at base of
6034 stump on High Point
" ridge near High Point

Bull Run Mt., Va
Prince William Co
January 1, 1939
H.A. Allard

6035 Lichen
Large, lead gray. on ditto
" old stump. very abundant
on trees, stumps, rocks etc.
near # 6034.

6036 close growing dark green mass ditto
" on sand stone boulder surface
" near ground in large, pure colonies.
can't be detached. moss in strong
competition with the yellowish green
lichen # 6037 a species of the moss

6037 which had actually overgrown the moss
" I.C.M. at point of contact, preventing its spread,
" same moss as # 6036, with
lichen competing with it = sp. of ditto

This lichen common on rocks, trees etc.

6038 Rock lichens ditto
" on sand stones & quartzites (recent or,
Cambrian) at High Point, Tranquille Co
North of Bererley Mill 1 1/2 miles.

6039 Rock lichens ditto
" on same cliffs with # 6038

6040 On rock lichens ditto
" on same cliffs with # 6038

Rock lichens
on sandstones and
quartzites (Wesertown,
Cambrian) at
High Point N. of
Beverly Mill 1 1/2 miles

Bull Run Mt. Va
Fauquier Co
January 1, 1939
H.A. Allard

6041 Rock lichens
growing with # 6041

ditto

6042 Rock lichens
growing with # 6041

ditto

6043 Rock lichens
growing with # 6041

ditto

6044 Rock lichens
growing with # 6041

ditto

6045 Rock lichens
a dense, black series in
patches, appearing like smelt
patches on the rocks: very abundant
near # 6041

ditto

6046 Moss: silvery color
In crevices of rock outcrops
directly in front of Beverly Mill
across railroad on cut here.

ditto

Moss
In rock crevices
near # 6047

6048

(1)

Bull Run Mt., Va
Fauquier Co
January 1, 1939
H.A. Allard

6049 Moss
(green)

(1)

In same place near # 6047

ditto

6050 Moss

(1)

In same place near # 6047

ditto

6051 Moss

(1)

In rock crevices near
6047

ditto

6052 Moss

(1)

In rock crevices near
6047

ditto

6053 Moss

(1)

In rock crevices near #
6047

ditto

6054 Moss

(1)

In rock crevices opposite
Beverly Mill with # 6047

ditto

Moss
on soil in thin pine
woods on ridge N.E. of
Beverly Mill, near
6055 railroad & just
East of valley road to
Bull Run Mt., Va
January 1, 1939
H.G. Allard
Prince William Co
Haterell Gap.

Moss and liverwort.
6056 on moist soil of brook
bank below little cemetery
where creek goes in, N.E.
of Beverly 1 mile
ditto

6057 Moss
on same brook bank
near #6056,
very beautiful, fern like, large,
ditto

6058 Moss
on same brook bank
with #6057
ditto

6059 Moss
on soil in pine woods
with #6055
Leucobryum albidum
ditto

6060 Moss
on dead wood near
#6055
ditto

6061 Moss
on dead wood near #6055
ditto

Moss
Leucobryum albidum
Bull Run Mt., Va
January 1, 1939
H.G. Allard
Prince William Co
6062 on soil and
dead wood near #6055.

Moss
on soil in thin pine
woods on ridge, N.E. of
Beverly Mill, near
6055 railroad at first
East of valley road to
Bull Run Mt., Va
January 1, 1939
H.G. Allard
Prince William Co
Hafersell Gap.

6065e = *Cladonia squamosa* f. *phyllotoda* (Patauch.) Wain.
6065 f = " " " " " "
6065 g = " " " " " "

Moss
Leucobryum albidum Bull Run Mt., Va
January 1, 1939
H.G. Allard
Prince William Co
6062 on soil and
(1) dead wood near # 6055.
abundant here in pines

6063 *Cladonia*
(reindeer moss)
(1) common in pine woods
near # 6055; a common species
here) ditto

6064 Moss
(1) *Leucobryum albidum* ditto
In crevices on cliffs at High Point,
often completely filling them with
this moss on nearly vertical walls
so a line of green down the rock face.
Hoffm. Not distinct as to form.

6065 *Cladonia squamosa* (Scop.) Hoffm. Bull Run Mt., Va
(18) on damp rocks
sloping to horizontal, Tanquier Co
loosely on humus, soil H.G. Allard,
at foot of High Point cliffs very squamulose,
1 mile S. of Hafersell Gap.
dense mats. Podetia slender hollow at
tip. 6065g. *C. squamosa* (Scop.) Hoffm.
Not distinct as to form.

6066
(1) *Cladonia* same as 6065, but "C. squamosa" f. *lanata* Wain.
growing over and completely
smothering the moss with a
dense mat of squamules
for 3 cm. moss completely hidden
billed. = *Cladonia squamosa* (Scop.) Hoffm.
ditto

6067
(2) Lichen (crustose)
on soil on rock shelf below
High Point cliffs ditto

6068
(1) *Cladonia squamosa* (Scop.) Hoffm. Not distinct
as to form.
on humus soil on flat of sloping
rocks at foot of High Point cliffs,
near # 6067 ditto

Lichen
on underside of
rock shelf at High Point
6069 cliffs; color yellow.
||

Bull Run Mt., Va
Fauquier Co
January 8, 1939
H.A. Allard

6070 *Cladonia didyma* f. *subulata* P. ex. ditto
|| slender, whitish, pointed, sorediose. *ex. ditto*
On dead wood on High Point
cliffs near # 6069

6071 *Cladonia macilenta* f. *styracella* (Ach.) H. ex. ditto
|| On soil on dead wood at High Point Cliffs. very sorediose.


6072 Lichen, small clustered greenish, fruticose on vertical quartz rocks on other portions High Point Cliffs. Not abundant here: *Parmalina farinacea* (L.) Ach. ditto

6073 On stems of *Kalmia latifolia* at High Point Cliffs. ditto
|| a bluish gray *Parmelia*?
(*Hepheromopsis ilicis* (Ach.) H. ex. (sent to E. von by mistake as was 6072.)

6074 Lichen on soil on shelf at foot of High Point Cliffs. crustose. ditto
||

6075 Moss on rotten wood at High Point Cliffs. ditto
||

Moss on rocks - adhering too tightly to remove -
6076 on High Point cliffs H.A. Allard
||

6077 *Cladonia* on rock adhering too tightly to remove - on vertical rock faces at High Point Cliffs. ditto
|| *Cladonia grayi* f. *aberrans* Asakina
 (contains lactic acid but is P.)

6078 Top of Rock lichens from High Point Cliffs ditto
||

6079 Rock lichens from High Point Cliffs. The dark one on vertical faces of pure quartz rocks, forming small circular patches about the size of a dollar or smaller ditto
||

6080 Rock lichens (top) from High Point Cliffs. ditto
||

6081 Rock lichens (top) from High Point Cliffs. ditto
||

6082 Moss on dead wood in woods at High Point Cliffs. ditto
||

Mass
On soil in Castle's
field high up on
6083 slope just west of
the flag stone quarry
and spring at Hafersell Gap.
Bull Run Mt., Va
January 8, 1939
Fauquier Co.,
H.A. Allard

6084 Mass
On dead log in oak-chestnut
woods at High Point Cliffs. ditto

6085 Mass
On soil near # 6083, in
same field. ditto

6086 Moss
On thin soil on rocks
at High Point Cliffs ditto

6087 Moss
On thin brown soil on
rocks at High Point Cliffs. ditto

6088 Moss
On thin brown soil on
rocks at High Point Cliffs ditto

6089 Cladonia cristatella f. vestita Tuck.
on soil in thin second-growth
woods near High Point Cliffs.
Bull Run Mt., Va
January 29, 1939
H.A. Allard
road Run road near Hafersell Gap, Fauquier Co.

Cladonia strepsilis (Ach.)
on the bark at base of
6090 tree
near # 6089.
Bull Run Mt., Va
Fauquier Co
H.A. Allard
Jan. 29, 1939
in woods, west slope
below High Point.
Uncertain.

6091 Cladonia sp. (not enough to test) ditto
on soil near # 6089
apothecia red; podetia very squamulose

6092 Cladonia subcariosa f. squamulosa ditto
apothecia brown
on soil near # 6089
Roffin.

6093 Cladonia subcariosa f. squamulosa ditto
on soil near # 6089
Roffin.

6094 Cladonia subcariosa f. evoluta main ditto
apothecia brown
on soil with # 6089

6095 Lichen
fruticose - rather small
on rocks at High Point. ditto

6096 Gyrophora vellea. 3 ditto
on rocks at High Point
competing with Umbilicaria pustulata

Lichen
Imbricaria punctulata Bull Run Mt., Va.
Fauquier Co.
west slope below High Point
January 29, 1939
H.A. Allard.
6097 On rocks near
High Point - north
end; very abundant,
competing with *Cyrophora pedicula* here.

6098 Moss.
On rocks crevices and seams
on low boulder in woods west
slope below High Point. Dark
Dark green. A nice species ditto

6099 *Cladonia*
(reindeer moss)
on soil in thin, open young
second growth woods at foot of
High Point, west slope just east of
old barn & mansion - ditto

6100 *Grimmia*
Moss.
on flat rocks near # 6098 ditto

6101 Moss
On rocks in woods near
6098 ditto

6102 Moss
On bark, base of tree
near # 6098 ditto

6103 Moss
On soil & rocks, dead
wood etc near # 6098. ditto

January 29, 1939. To Hagerell Gap, Bull Run Mt., Va.
Rain all day from 10 A.M. on. Snow
at 2 P.M.: snowfall heavy then.

all higher plants other than Bull
Run in this book entered under
proper families with collection
numbers, (see large book naming
plants and copied by Mrs. E.C. Leonard
6472 4872 - 6471 inc (h 150)

This done July 19, 1940.
all higher plants of Bull Run area
entered under families with numbers to
end of this field collection book.

all higher plants in this book
other than Bull Run card indexed
to end March 1941.

All higher plants - ie all green
plants, ferns, lycophytes etc, except
lichens, mosses and hepatics from
Bull Run area card indexed and
checked March 11, 1941.

2 symbol = checked.

No lichens, fungi, mosses or liverworts
checked 2 or card indexed March 11,
1941.

